Air Quality in Ontario 1999
Appendix

ONTARIO

Ministry of the
Environment

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INTRODUCTION

This appendix is intended for use in conjunction with the annual report Air Quality in Ontario 1999. The first part of the Appendix briefly describes the provincial air monitoring network, the quality assurance and quality control procedures and data base. The second part of the Appendix provides a series of tables showing the station locations as well as a listing of the summary statistics including, means, maxima, percentile values and the number of exceedances of the Ontario criteria for each pollutant.

MONITORING NETWORK OPERATIONS

Network Description

In 1971, the provincial air monitoring network consisted of 254 instruments: 166 continuous analyzers at 76 monitoring sites and 88 sites with high-volume samplers. By 1980, the provincial network had reached its maximum size at 450 instruments of which 268 were continuous analyzers at 106 sites and 182 high-volume samplers. During 1999, the network consisted of 227 continuous monitoring instruments at 74 sites, 51 high-volume samplers, 27 daily PM_{10} samplers and 27 real-time $PM_{10/2.5}$ monitors.

Ministry regional boundaries along with the Regional, area and district head office locations are show in Map 1.

More than 60% of all air monitoring by the ministry is source-specific and is the principal responsibility of Operations Division. For the most part, the operation of the monitoring stations and the collection of air samples is conducted by the regional staff. Environmental Monitoring and Reporting Branch operates the Greater Toronto Area (ambient stations) network and the mobile air monitoring units. The monitoring networks are classified by their functions: continuous air monitoring stations; non-continuous sampling sites; the toxic networks; and mobile air monitoring.

Quality Assurance and Quality Control

In 1999, each region had an atmospheric and terrestrial effects unit responsible for the day-to-day air monitoring and maintenance.

Each day, the instruments are checked through a computerized telephone link by technicians confirming the automatic zero and span values (that is, a known value for a particular gas).

Regional technicians inspect and maintain the monitoring equipment and stations continually. If an instrument undergoes major servicing, the instrumentation and quality assurance unit will re-calibrate it.

Portable calibration equipment is used by regional staff. This equipment itself is re-calibrated at least twice per year.

There are other monitoring programs, such as those operated by the Lambton Industrial Society, Environment Canada and Ontario Hydro, which the ministry either audits or conducts comparisons with. It uses data from these services to judge provincial air quality.

The environmental monitoring and reporting branch operates a laboratory with gas reference standards that adhere to those of the U.S. National Institute of Standards and Technology (NIST) as well as to the pollution measurement division of Environment Canada.

Performance audits are conducted on the sulphur dioxide, nitrogen oxides/nitrogen dioxide, ozone and total reduced sulphur (as hydrogen sulphide) monitors approximately three times per year and on carbon monoxide monitors once per year.

Chemical analyses performed by the laboratory services branch are also subject to quality assurance and control.

The ambient air quality monitoring network undergoes constant maintenance to ensure a high standard of quality control.

Continuous real-time and particulate data are reviewed, assessed and validated constantly by regional staff and staff of the Environmental Monitoring and Reporting Branch

Actions are taken immediately to correct anything that may affect the validity of the data.

These measures ensure that ambient air monitoring data are valid, complete, comparable, representative and accurate.

In 1999, continuous air monitoring instruments were given 716 performance audits. Approximately 80.2 per cent of the audits were found to be in the acceptable performance criterion , i.e. measured values were within 10 per cent of the standard For the remaining 19.8 per cent which fell outside the 10 per cent range, station log records and backup charts were consulted to adjust the data to reflect true ambient concentrations. As a result, the network for 1999 had 93.2 per cent valid data out of approximately 4 million data points.

Data Base

The ambient air quality data used in this report are stored in the ministry's air quality information system (AQUIS). Approximately 4 million air pollution measurements are added to AQUIS yearly, with the vast majority representing Ontario's more heavily populated urban areas.

A statistical pattern test is used to identify data anomalies, such as unusual pollutant concentrations. Each pollutant has a predetermined pollutant concentration range based on historical data. Values outside this range are flagged for further investigation.

AQUIS data are divided into two major groupings: continuous (1-hour) measurements and daily (24-hour) measurements.

Hourly data are obtained from automated ambient air monitoring instruments which operate continuously. These produce an average measurement each hour for a possible total of 8760 measurements in a year.

SO_2, SP (as COH), CO, NO_x/NO/NO_2, O_3, PM_{10}/$PM_{2.5}$ and TRS compounds are all measured hourly. A valid annual mean requires at least 5840 hourly readings or 67 per cent valid data. Typically the network yields approximately 95 per cent valid data.

The instruments which provide daily measurements from a 24-hour sampling period are usually operated on one, three or six-day sampling cycles. They measure TSP, PM_{10}, lead, various trace metals, sulphate and nitrate.

For daily data, a valid annual mean requires at least two thirds of the total number of possible samples, i.e., a station operating on a 6-day sampling schedule would require at least 40 out of a possible 61 samples.

To be included in the 10-year trend analysis, a site must have valid annual means for at least 8 out of the 10 years 1990-1999. To be included in long term analysis a site must have a valid annual for at least 24 out of the 29-years, 1971-1999.

NETWORK DESCRIPTIVE TABLES AND ANNUAL STATISTICS

The entire continuous (hourly) network is summarized in Table 1 and Maps 2-9. The table gives station name, numerical identifier, and pollutants measured. The numerical identifier is the station (ID) number, the first digit of which identifies the geographic region in which the station is located.

The column headings for the continuous pollutants are as follows:

SO_2	(sulphur dioxide)
SP	(suspended particles as measured by COH)
TRS	(total reduced sulphur compounds)
CO	(carbon monoxide)
NO_2	(nitrogen dioxide)
NO_x	(oxides of nitrogen)
NO	(nitric oxide)
O_3	(ozone)
$PM_{10}/PM_{2.5}$	(real-time inhalable/respirable particles)
API	(air pollution index)
AQI	(air quality index)

The particulate (daily) network is summarized in Table 2 and Map 10. The table gives station name, numerical identifier, and pollutants measured. Numerals indicate the monitoring cycle frequency in days. Some additional codes are defined in the key at the top of the table. The column headings for the noncontinuous pollutants are as follows:

TSP	(total suspended particles)
Cu	(copper in TSP)
Cr	(chromium in TSP)
Fe	(iron in TSP)
Mn	(manganese in TSP)
Ni	(nickel in TSP)
Pb	(lead in TSP)
V	(vanadium in TSP)
NO_3^-	(nitrate in TSP)
SO_4^{2-}	(sulphate in TSP)

The inhalable particle (PM_{-10}) network is summarized in Table 3 and Map 11. This table gives the station location, parameters measured and frequency of sampling.

The meteorological network is summarized in Table 4 and Map 12. This table gives station name, numerical identifier, meteorological parameters measured and the height of the measurements.

The 1999 statistical data for the various pollutants are provided in Tables 5 through 29. The 10-year trends are presented in Tables 30 to 37. The stations used in the 10-year trends are listed in Table 38.

ABBREVIATIONS

ID	- five digit provincial station identification number
TYP	- survey type
YR	- year monitoring began
LAT	- station latitude in degrees/minutes
LONG	- station longitude in degrees/minutes
ELEV	- elevation of sampling inlet (metres above ground)
INS	- insufficient data to compute relevant statistics

Table 1 ONTARIO CONTINUOUS AIR MONITORING NETWORK FOR 1999

T = TELEMETRY YR = YEAR STATION BEGAN ID = STATION IDENTIFICATION NUMBER ELEV = AIR INTAKE HEIGHT ABOVE GROUND
TYP = A:AMBIENT SURVEY; I:SOURCE SPECIFIC SURVEY LAT = LATITUDE(DEGREES:MINUTES) LONG = LONGITUDE(DEGREES:MINUTES)

CITY	STATION NAME	ID	TYP	YR	LAT	LONG	ELEV (M)	S02	COH	CO	O3	NO2/NOX NO	PM10	PM2.5	TRS	API	AQI
WINDSOR	WRIGHT/WATER ST	12007	I	84	42:17	83:06	4	T	.	.	.	.	.	.	T	.	.
WINDSOR	467 UNIVERSITY AV W	12008	A	69	42:19	83:03	8	T	T	T	T	T	.	.	.	T	T
WINDSOR	9725 RIVERSIDE DR E	12009	I	99	42:20	82:55	4	T	.	.	.	T	.	T	.	.	.
WINDSOR	COLLEGE/SOUTH ST	12016	I	75	42:18	83:04	4	T	T	.	T	.	T	.	T	T	T
MERLIN	MOE WATER PUMP STN, MIDDLE RD	13021	A	77	42:15	82:13	4	.	.	.	T	.	.	.	.	.	.
COURTRIGHT	HWY40 (OPP LAMBTON GS)	14016	I	69	42:48	82:29	4	T	.	.	.	.	.	.	.	.	.
SARNIA	CENTENNIAL PK,FRONT ST/CN TRACKS	14064	A	76	42:59	82:24	3	T	T	T	T	T	T	.	T	T	T
MANDAUMIN	CONCESSION RD 26	14118	A	77	42:56	82:14	4	.	.	.	T	.	.	.	.	.	.
LONGWOODS	LONGWOODS CONSERVATION AUTH.	15009	A	83	42:53	81:29	4	.	.	.	T	.	.	.	.	.	.
PARKHILL	PUC BUILDING	15013	A	83	43:10	81:41	5	.	.	.	T	T	.	.	.	.	.
GRAND BEND	POINT BLAKE (CONSERVATION AREA)	15020	A	91	43:20	81:44	4	.	.	.	T	.	.	.	.	.	.
LONDON	900 HIGHBURY AVE.	15025	A	95	42:61	81:13	4	T	T	T	T	T	T	.	.	T	T
TIVERTON	CONCESSION RD 2 LOT A	18007	A	79	44:18	81:35	4	.	.	.	T	.	.	.	.	.	.
SIMCOE	EXPERIMENTAL FARM	22071	A	75	42:51	80:16	4	T	.	.	T	T	.	T	.	.	.
NANTICOKE	CHEAPSIDE RD(3 KM S OF HWY 3)	22086	I	77	42:52	80:00	5	T	.	.	.	T	.	.	.	.	.
LONG POINT	PROVINCIAL PARK	22901	A	79	42:35	80:23	4	T	.	.	T	T	.	.	.	.	.
NANTICOKE	WALPOLE S PS, SANDUSK RD	22904	I	79	42:50	80:02	4	T	.	.	.	.	.	.	T	.	.
NANTICOKE	NANTICOKE VILLAGE	22907	I	84	42:49	80:05	4	T	T	.	.	.	.	.	T	.	.
KITCHENER	WEST AVE/HOMEWOOD	26060	A	90	43:26	80:30	5	T	T	T	T	T	.	T	.	T	T
ELMIRA	UNION/PARK	26070	I	99	43:35	80:30	4	T	.	.	.	.	.	.	T	.	.
ST CATHARINES	ARGYLE CRESCENT	27067	A	87	43:10	79:14	4	T	T	T	T	T	.	T	.	T	T
HAMILTON	ELGIN/KELLY	29000	A	87	43:15	79:52	4	T	T	T	T	T	.	T	T	T	T
HAMILTON	BARTON/SANFORD	29025	I	69	43:16	79:51	4	T	T	.	.	.	T	.	T	.	.
HAMILTON	467 BEACH BLVD	29102	I	84	43:17	79:47	4	T	T	.	.	T	.	.	T	.	.
HAMILTON	VICKERS RD/EAST 18TH ST	29114	A	85	43:14	79:52	3	T	T	.	T	T	.	T	T	T	T
HAMILTON	MAIN ST/W HWY 403	29118	A	85	43:15	79:54	3	T	T	T	T	T	.	.	T	T	T
HAMILTON	HILLYARD ST	29531	I	96	43:29	79:55	3	.	T	.	.	.	T	.	T	.	.
HAMILTON	PIER 25/BEACH STRIP	29547	I	92	43:27	79:78	4	.	T	.	.	.	.	.	T	.	.
TORONTO	CN TOWER	31190	A	89	43:35	79:23	444	.	.	.	T	T	.	.	.	.	.
TORONTO	BAY/WELLESLEY	31103	A	97	43:39	79:23	3	T	.	T	T	T	.	T	.	.	T
SCARBOROUGH	LAWRENCE/KENNEDY	33003	A	70	43:45	79:16	4	T	.	T	T	T	T	.	.	.	T
NORTH YORK	HENDON AVE (YONGE ST/FINCH AVE)	34020	A	88	43:47	79:25	5	T	.	T	T	T	.	T	.	.	T
ETOBICOKE	ELMCREST RD (CENTENNIAL PK)	35003	A	69	43:39	79:35	5	T	.	T	T	T	T	.	.	.	T
ETOBICOKE	EVANS/ARNOLD AV.	35033	I	67	43:37	79:31	5	T	T	T	T	T	T	T	.	T	T
YORK	CLEARVIEW HEIGHTS	36030	I	88	43:42	79:29	5	T	T	T	T	T	.	.	.	T	T
BURLINGTON	HWY2/NORTH SHORE BLVD E.	44008	A	79	43:19	79:48	5	T	.	T	T	T	T	.	.	.	T
OAKVILLE	BRONTE RD/WOBURN CRES.	44015	A	80	43:24	79:44	5	T	T	T	T	T	.	.	T	T	T
OSHAWA	PS, RITSON RD/OLIVE AV	45025	A	79	43:53	78:51	5	T	.	T	T	T	.	T	.	.	T
MISSISSAUGA	QUEENSWAY W/HURONTARIO ST.	46110	A	77	43:34	79:37	5	T	T	T	T	T	.	T	.	T	T
MISSISSAUGA	MEADOW PK, APPLE LANE C C	46117	I	87	43:31	79:36	5	T	.	.	.	.	.	.	T	.	.

Table 1 ONTARIO CONTINUOUS AIR MONITORING NETWORK FOR 1999

T = TELEMETRY YR = YEAR STATION BEGAN ID = STATION IDENTIFICATION NUMBER ELEV = AIR INTAKE HEIGHT ABOVE GROUND
TYP = A:AMBIENT SURVEY; I:SOURCE SPECIFIC SURVEY LAT = LATITUDE(DEGREES:MINUTES) LONG = LONGITUDE(DEGREES:MINUTES)

CITY	STATION NAME	ID	TYP	YR	LAT	LONG	ELEV (M)	S02	COH	CO	O3	NO2/NOX NO	PM10	PM2.5	TRS	API	AQI
STOUFFVILLE	HWY47/E OF HWY48	48002	A	74	43:58	79:16	5	.	.	.	T	T	T	.	.	.	.
DORSET	HWY 117/PAINT LAKE ROAD	49010	A	81	45:13	78:56	3	.	.	.	T	T	.	T	.	.	.
OTTAWA	MCD GDS, RIDEAU/WURTENBURG ST.	51001	A	71	45:26	75:41	4	T	T	T	T	T	.	T	.	T	T
KINGSTON	DALTON STREET	52020	A	88	44:14	76:31	5	.	T	.	T	.	T	.	.	.	T
CORNWALL	MEMORIAL PK, BEDFORD/THIRD STS.	56051	I	70	45:01	74:44	4	T	T	T	T	T	.	.	T	T	T
PETERBOROUGH	10 HOSPITAL DRIVE	59006	A	98	44:18	78:21	7	T	.	T	T	T	T	.	.	.	.
DRYDEN	35 VAN HORNE AV.	61027	I	84	49:47	92:50	15	.	.	.	.	.	.	.	T	.	.
FORT FRANCES	PORTAGE/CHURCH ST.	62030	I	76	48:37	93:24	4	.	.	.	.	.	.	.	T	.	.
FORT FRANCES	CEMETERY,COLONIZATION RD W	62032	I	76	48:37	93:25	5	.	.	.	.	.	.	.	T	.	.
INT'L FALLS	U.S. CUSTOMS BLDG	62045	I	97	48:36	93:24	4	T	.	.	.	.	.	.	T	.	.
FORT FRANCES	EIGHTH ST/CORNWALL AVE.	62047	I	90	48:37	93:24	4	.	.	.	.	.	.	.	T	.	.
FORT FRANCES	ROBERT MOORE P.S. ARMIT AV/4TH ST	62200	A	97	48:38	9323	3		T		T		.		T	.	T
MARATHON	PETER STREET	63033	I	91	48:43	86:23	4	.	.	.	.	.	.	.	T	.	.
THUNDER BAY	BOMBARDIER, MONTREAL ST.	63046	I	76	48:21	89:18	3	.	.	.	.	.	.	.	T	.	.
RED ROCK	RECREATION CTR, BROMPTON RD	63084	I	81	48:57	88:15	7	.	.	.	.	.	.	.	T	.	.
TERRACE BAY	ST MARTIN SCHOOL, SELKIRK ST	63090	I	81	48:47	87:06	8	.	.	.	.	.	.	.	T	.	.
TERRACE BAY	TERRACE HEIGHT DR	63092	I	94	48.48	87:04	4	.	.	.	.	.	.	.	T	.	.
THUNDER BAY	MOT 615 JAMES ST S	63200	A	86	48:23	89:17	3	T	T	T	T	T	.	.	T	T	T
SAULT STE MARIE	PUMPHOUSE, BONNEY ST	71042	I	99	46:31	84:23	2	.	.	.	.	.	.	T	.	.	.
SAULT STE MARIE	WM. MERRIFIELD SCHOOL, PATRICT ST	71068	A	87	46:32	84:21	3	T	T	.	T	T	T		T	T	T
NORTH BAY	DEPT NATIONAL DEFENCE, CHIPPEWA ST	75010	A	79	46:19	79:27	4	.	T	.	T	.	.	.	.	.	T
SUDBURY	SKEAD	77012	I	52	46:39	80:46	4	T	.	.	.	.	.	.	.	.	.
SUDBURY	HANMER	77013	I	73	46:39	80:57	5	T	.	.	.	.	.	.	.	.	.
SUDBURY	WATER TANK ASH ST.	77016	I	69	46:30	81:00	3	T	.	.	.	.	.	.	.	.	.
CONISTON	GOVERNMENT ROAD/EDWARD ST.	77028	I	74	46:29	80:51	4	T	.	.	.	.	.	.	.	.	.
GARSON	FALCONBRIDGE ROAD	77065	I	76	46:34	80:51	4	T	.	.	.	.	.	.	.	.	.
NEW SUDBURY	KENNEDY STREET	77075	I	76	46:31	80:57	4	T	.	.	.	.	.	.	.	.	.
SUDBURY	LONG LAKE RD (VILLA LOYOLA)	77096	I	80	46:24	81:01	4	T	.	.	.	.	.	.	.	.	.
SUDBURY	MIKKOLA (J. HAMILTON SCHOOL)	77201	I	82	46:25	81:07	4	T	.	.	.	.	.	.	.	.	.
SUDBURY	SCIENCE NORTH	77203	A	84	46:28	80:59	15	T	T	T	T	T	.	.	T	T	T
RAYSIDE	ST LAURENT/REGIONAL RD.	77206	I	85	46:36	81:06	4	T	.	.	.	.	.	.	.	.	.
COPPER CLIFF	MARKET STREET	77218	I	87	46:28	81:04	4	T	.	.	.	.	.	.	.	.	.
SUDBURY	ROBINSON SCHOOL	77225	I	90	46:28	81:00	4	T	.	.	.	.	.	.	.	.	.
SUDBURY	DOZZI PARK	77228	I	93	46:28	81:02	4	T	.	.	.	.	.	.	.	.	.
		Source	39														
TOTALS: 74 Air Monitoring Stations		Ambient	35					50	26	22	39	33	13	14	30	18	27

LEGEND:

SO2 - Sulphur Dioxide
COH - Coefficient of Haze
CO - Carbon Monoxide
O3 - Ozone
NO2 - Nitrogen Dioxide
NO - Nitric Oxide
NOX - Oxides of Nitrogen
TRS - Total Reduced Sulphur
API - Air Pollution Index
AQI - Air Quality Index
PM10 - Inhalable Particulate
PM2.5 - Respirable Particulate

Table 2 ONTARIO NONCONTINUOUS AIR MONITORING NETWORK FOR 1999

SINGLE DIGITS = CYCLE DURATION IN DAYS
TYPE = A:AMBIENT SURVEY; I:SOURCE SPECIFIC SURVEY
ELEV = AIR INTAKE HEIGHT ABOVE GROUND (METERS)
ID = STATION IDENTIFICATION NUMBER
LAT =LATITUDE(DEGREES:MINUTES)
LONG = LONGITUDE(DEGREES:MINUTES)

CITY	STATION NAME	ID	TYPE	YR	LAT	LONG	ELEV (M)	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	NO3	SO4	RAD
ST. MARYS	309 THOMAS ST.	11001	I	79	43:15	81:09	3	6	.	.	.	.	.	.	.	.	.	.	.
WINDSOR	WRIGHT/WATER ST	12007	I	84	42:17	83:06	4	6	6	6	6	6	6	6	6	6	6	6	.
WINDSOR	467 UNIVERSITY AV W	12008	A	70	42:19	83:03	8	6	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	DROUILLARD RD/RICHMOND ST	12011	I	88	42:19	83:00	5	6	6	6	6	6	6	6	6	6	.	.	.
WINDSOR	FILTRAT PLT,3665 WYANDOTTE ST E	12013	I	71	42:19	83:00	6	6	6	6	6	6	6	6	6	6	.	.	.
WINDSOR	COLLEGE/SOUTH ST	12016	A	75	42:18	83:04	4	6	6	6	6	6	6	6	6	6	6	6	.
WINDSOR	2885 HOWARD AVE	12038	I	78	42:17	83:01	4	6	6	6	6	6	6	6	6	6	6	6	.
WINDSOR	COLUMBUS CENTRE	12058	I	93	42:17	83:01	5	6	6	6	6	6	6	6	6	6	6	6	.
WINDSOR	CITY YARD	12061	I	95	42:18	83:02	6	6	6	6	6	6	6	6	6	6	.	.	.
COURTRIGHT	HWY40 (OPP LAMBTON GS)	14016	I	69	42:48	82:29	4	6	6	6	6	6	6	6	6	6	6	6	6
CORUNNA	R.R. #1 (W OF HOUSE)	14030	I	78	42:53	82:17	1	6	6	6	6	6	6	6	6	6	.	.	.
LONDON	900 HIGHBURY AVE	15025	A	96	42:61	81:16	4	6	6	6	6	6	6	6	6	6	.	.	6
BEACHVILLE	CYANAMIDE RD (GORDON PROP)	17014	I	74	43:05	80:50	2	6	.	.	.	.	.	.	.	.	.	.	.
BEACHVILLE	26 VINE ST (MOE TRAILER)	17015	I	89	43:05	80:50	4	6	.	.	.	.	.	.	.	.	.	.	.
BEACHVILLE	HWY 2 RR 2 (J SPRIEL PROP)	17020	I	81	43:04	81:49	4	6	.	.	.	.	.	.	.	.	.	.	.
BEACHVILLE	OXFORD CTY RD 6 (HESSTON FARM)	17021	I	83	43:06	81:58	1	6	.	.	.	.	.	.	.	.	.	.	.
BEACHVILLE	26 VINE ST (MOE TRAILER)	17215	I	89	43:04	80:50	4	6	.	.	.	.	.	.	.	.	.	.	.
BEACHVILLE	26 VINE ST (MOE TRAILER)	17315	I	89	43:04	80:50	4	6	.	.	.	.	.	.	.	.	.	.	.
NANTICOKE	WALPOLE S PS, SANDUSK RD	22904	I	84	42:50	80:02	4	6	.	.	.	.	.	.	.	.	6	6	.
NANTICOKE	RAINHAM RD (NEAR STELCO GATE)	22907	I	84	42:49	80:05	4	6	.	.	.	.	.	.	.	.	.	.	.
NANTICOKE	N 2 KM NANTICOKE GS	22964	I	84	42:50	80:05	4	6	.	.	.	.	.	.	.	.	.	.	.
ELMIRA	MILL ST	26054	I	98	43:35	80:33	3	6	6	6	.	6	6	6	6	6	.	.	
ELMIRA	CHURCH/DUKE	26056	I	98	43:35	80:33	5	6	6	6	.	6	6	6	6	6	.	.	
CAMBRIDGE	SCOTT RD/CLEMENS AVE	26062	I	99	43:25	80:19	1.5	6	6	6	.	6	6	6	6	6	.	.	
CAMBRIDGE	SHEFFIELD ST	26064	I	99	43:25	80:18	10	6	6	6	.	6	6	6	6	6	.	.	
WELLAND	337 ALBERTA/DEVON ST	27045	I	78	42:58	79:15	1	6	.	.	.	.	.	.	.	.	.	.	.
THOROLD	185 QUEEN ST S	27052	I	82	43:07	79:12	1	6	6	6	6	6	6	6	6	6	.	.	.
ST CATHARINES	27 PLYMOUTH AVE	27057	I	98	43:06	79:05	4	6	6	6	6	6	6	6	6	6	.	.	.
THOROLD	BEAVERDAMS/COLLIER ST	27081	I	99	43:06	79:12	1.5	6	6	6	.	6	6	6	6	6	.	.	
NIAGARA FALLS	7401 PORTAGE RD	27082	I	99	43:04	79:04	1.5	6	6	6	.	6	6	6	6	6	.	.	
HAMILTON	ELGIN/KELLY	29000	A	88	43:15	79:52	4	6	.	.	.	.	.	.	.	.	.	.	.
HAMILTON	KENILWORTH	29009	I	69	43:15	79:49	6	6	.	.	.	.	.	.	.	.	.	.	.
HAMILTON	BURLINGTON/LEEDS	29011	I	73	43:16	79:49	5	6	6	6	6	6	6	6	6	6	6	6	.
HAMILTON	BURLINGTON/WELLINGTON	29012	A	73	43:16	79:59	7	6	.	.	.	.	.	.	.	.	.	.	.

Table 2 ONTARIO NONCONTINUOUS AIR MONITORING NETWORK FOR 1999

SINGLE DIGITS = CYCLE DURATION IN DAYS
ID = STATION IDENTIFICATION NUMBER
TYPE = A:AMBIENT SURVEY; I:SOURCE SPECIFIC SURVEY
LAT =LATITUDE(DEGREES:MINUTES)
ELEV = AIR INTAKE HEIGHT ABOVE GROUND (METERS)
LONG = LONGITUDE(DEGREES:MINUTES)

CITY	STATION NAME	ID	TYPE	YR	LAT	LONG	ELEV (M)	TSP	Cd	Cr	Cu	Fe	Mn	Ni	Pb	V	NO3	SO4	RAD
HAMILTON	BARTON/SANFORD	29025	I	69	43:16	79:51	4	6	6	6	6	6	6	6	6	6	6	6	.
HAMILTON	467 BEACH BLVD	29102	I	85	43:17	79:47	4	6	6	6	6	6	6	6	6	6	6	6	.
HAMILTON	GERTRUDE/DEPEW	29113	I	86	43:15	79:49	4	6	.	.	.	.	.	.	.	.	.	.	.
HAMILTON	VICKERS RD/EAST 18TH ST	29114	A	85	43:14	79:52	3	6	6	6	6	6	6	6	6	6	6	6	.
HAMILTON	MAIN ST/W HWY 403	29118	A	85	43:15	79:54	3	6	.	.	.	.	.	.	.	.	.	.	.
HAMILTON	DUNDURN/YORK	29122	I	87	43:16	79:53	10	6	.	.	.	.	.	.	.	.	.	.	.
HAMILTON	KEEFER COURT/MOEE LAB	29143	I	92	43:24	79:76	4	6	.	.	.	.	.	.	.	.	.	.	.
TORONTO	BRUCE PS, 51 LARCHMOUNT AV	31045	I	86	43:40	79:20	6	1	.	.	.	.	.	.	1	.	.	.	.
TORONTO	A.R.CLARKE CO. 633 EASTERN AVE.	31065	I	87	43:40	79:20	12	1	.	.	.	.	.	.	1	.	.	.	.
TORONTO	WORKS DEPT, 138 HAMILTON AV	31082	I	74	43:40	79:21	5	1	.	.	.	.	.	.	1	.	.	.	.
BURLINGTON	3900 MAINWAY BLVD	44009	I	99	43:21	79:48	4	6		.	.	6	.	.	.	.	.	.	
MISSISSAUGA	2360 DIXIE RD	46047	I	95	43:36	79:35	1	6	.	.	.	.	.	.	6	.	.	.	.
MISSISSAUGA	MEADOW PARK, APPLE LANE C C	46117	I	87	43:31	79:36	5	6	6	6	6	6	6	6	6	6	.	.	.
MARKHAM	2800 JOHN ST (AT WOODBINE)	48003	I	99	43:49	79:21	4	6		.	.	.	.	.	.	.	.	.	
THUNDER BAY	BOMBARDIER, MONTREAL ST	63046	I	78	48:21	89:18	3	6	.	.	.	.	.	.	.	.	.	.	.
SAULT STE MARIE	PUMPHOUSE, BONNEY ST	71042	I	75	46:31	84:23	2	6	.	6	6	6	6	6	6	6	.	.	.
HEARST	GEORGE ST/6TH ST	72114	I	90	49:41	83:39	2	6	.	.	.	.	.	.	.	.	.	.	.
TOTALS:								51	24	25	19	26	25	24	29	25	11	11	4

LEGEND:

TSP - Total Suspended Particulate	Fe - Iron	V - Vanadium	Sb - Antimony
Cd - Cadmium	Mn - Manganese	N03 - Nitrate	C - Carbon
Cr - Chromium	Ni - Nickel	SO4 - Sulphate	RAD - Radiation
Cu - Copper	Pb - Lead	Cl - Chlorine	

Table 3 ONTARIO AIR MONITORING NETWORK FOR PM_{10} 24-HOUR SAMPLING FOR 1999

ID - STATION ID YR - YEAR MONITORING BEGAN LAT - LATITUDE (DEGREES MINUTES) LONG - LONGITUGE (DEGREES MINUTES)
ELEV - AIR INTAKE HEIGHT ABOVE GROUND (METERS) TYPE - A IS AMBIENT SURVEY ; I IS SOURCE SPECIFIC SURVEY

CITY	STATION NAME	ID	YR	TYPE	LAT	LONG	ELEV (M)	IP	Cu	Fe	Mn	Pb	Cr	Cd	V	Ni	SO4
WINDSOR	WRIGHT/WATER STREET	12507	90	A	42 17	82 16	4	6	6	6	6	6	6	6	6	6	6
WINDSOR	467 UNIVERSITY AVE WEST	12508	89	A	42 19	83 02	8	6	6	6	6	6	6	6	6	6	6
WINDSOR	3665 WYANDOTTE ST. E.	12513	92	A	42 19	83 00	6	6	6	6	6	6	6	6	6	6	6
WINDSOR	ST GABRIEL S.S., 1400 ROSELAWN DRIVE	12556	98	A	42 15	83 01	10	6	6	6	6	6	6	6	6	6	6
WINDSOR	ST ALEXANDER S.S., 5305 ADSTOLL AVE.	12559	98	A	42 18	82 57	10	6	6	6	6	6	6	6	6	6	6
WINDSOR	ST GREGORY'S S.S., 13765 ST. GREGORY'S RD	12583	98	A	42 19	82 51	10	6	6	6	6	6	6	6	6	6	6
SARNIA	6TH LINE, MOORE TOWNSHIP	14550	97	I	42 58	82 24	3	6	6	6	6	6	6	6	6	6	6
SARNIA	CENTENNIAL PK/FRONT ST	14564	97	A	42 59	82 24	3	6	6	6	6	6	6	6	6	6	6
LONDON	900 HIGHBURY AVE.	15525	96	A	42 61	81 16	4	6	6	6	6	6	6	6	6	6	6
BEACHVILLE	EARL LANTZ PROPERTY	17550	98	I	43 06	80 52	2	6	6	6	6	6	6	6	6	6	6
NANTICOKE	WALPOLE 5 P.S., SANDUSK RD	22304	92	I	42 50	80 02	4	6	6	6	6	6	6	6	6	6	6
ELMIRA	MILL STREET	26365	98	I	43 35	80 33	3	6	6	6	6	6	6	6	6	6	6
ST CATHARINES	KING ST	27308	01	I	43 10	79 15	12	6	6	6	6	6	6	6	6	6	6
THOROLD	185 QUEEN ST. SOUTH	27352	90	I	43 07	79 12	4	6	6	6	6	6	6	6	6	6	6
HAMILTON	ELGIN/KELLY STREET	29300	90	A	43 15	79 52	4	6	6	6	6	6	6	6	6	6	6
HAMILTON	BEACH BLVD	29302	89	I	43 17	79 47	4	6	6	6	6	6	6	6	6	6	6
HAMILTON	GERTRUDE/DEPEW STREET	29313	90	I	43 15	79 49	4	6	6	6	6	6	6	6	6	6	6
HAMILTON	BUCHANAN PARK P.S.	29324	92	I	43 14	79 53	4	6	6	6	6	6	6	6	6	6	6
TORONTO	BAY/WELLESLEY	31127	89	A	43 39	79 23	3	6	6	6	6	6	6	6	6	6	6
ETOBICOKE	EVANS AVE/ARNOLD CRES	35127	97	A	43 37	79 31	5	6	6	6	6	6	6	6	6	6	6
OAKVILLE	BRONTE RD/WOBURN CRES	44127	92	I	43 24	79 44	1	6	6	6	6	6	6	6	6	6	6
MISSISSAUGA	MEADOW PK, APPLE LANE C.C.	46127	93	I	43 31	79 36	1	6	6	6	6	6	6	6	6	6	6
FORT FRANCES	250 CHURCH STREET	62135	92	I	48 36	93 23	9	6	6	6	6	6	6	6	6	6	6
THUNDER BAY	615 JAMES ST. SOUTH	63201	89	A	48 23	89 17	4	6	6	6	6	6	6	6	6	6	6
SAULT STE MARIE	PUMPHOUSE,BONNEY STREET	71342	89	I	46 31	84 23	2	6	6	6	6	6	6	6	6	6	6
SAULT STE MARIE	W. M. MERRIFIELD SCHOOL	71368	90	A	46 32	84 21	3	6	6	6	6	6	6	6	6	6	6
COPPER CLIFF	MARKET STREET	77570	96	I	46 28	81 04	4	6	6	6	6	6	6	6	6	6	6
			Ambient:	13			TOTAL	27	27	27	27	27	27	27	27	27	27

Notes: Samplers operate on a 6-day sampling cycle

LEGEND IP - Inhalable Particulate Cr - Chromium SO4 - Sulphate Ni - Nickel Pb - Lead
Cu - Copper Cd - Cadmium Mn - Manganese V - Vandium Fe - Iron

Table 4 ONTARIO METEOROLOGICAL NETWORK FOR 1999

ID - STATION ID NUMBER YR - YEAR MONITORING BEGAN
T - TELEMETRY LAT - LATITUDE(DEGREES:MINUTI LONG - LONGITUDE(DEGREES:MINUTES)

CITY	STATION NAME	ID	YR	LAT	LONG	WS1/WD1	HT1	WS2/WD2	HT2	WS3/WD3	HT3	TEM	DT1	DT2
Windsor	Wright/Water St.	12007	84	42:17	82:16	T	10	T	40	.	.	T	T	.
Windsor	9725 Riverside Drive E.	12009	99	42:20	82:55	T	15	.	.	.	.	.	.	.
Merlin	MOE Water Pump Stn, Middle Rd.	13021	77	42:15	82:13	T	9	.	.	.	.	.	.	.
Courtright	Hwy 40 (OPP Lambton GS)	14016	75	42:48	82:29	T	10	T	30	T	90	T	T	T
Parkhill	Puc Building	15013	83	43:10	81:41	T	10	.	.	.	.	.	.	.
Tiverton	Bruce GS Weather Station	18017	79	44:18	81:35	T	10	T	30	.	.	T	.	.
Jarvis	Hydro Met Tower (2Km Ne Jarvis)	22883	84	42:54	80:05	T	10	.	.	T	80	T	.	.
Long Point	Provincial Park	22901	79	42:35	80:23	T	10	.	.	T	80	T	.	.
Nanticoke	Rainham Road (Near Stelco Gate)	22907	89	42:48	80:04	T	10	.	.	.	.	.	.	.
Cambridge	Clyde Road	26066	91	43:38	80:29	.	.	T	30	.	.	T	.	.
Elmira	Union Park	26070	99	43:35	80:30	T	6	.	.	.	.	.	.	.
Allanburg	Transformer Station Highway 58	27011	81	43:04	79:11	T	10	T	37	.	.	T	T	.
Hamilton	N. Brampton/Woodward	29026	75	43:15	79:46	T	10	T	30	T	91	T	.	.
Flamborough	Moxley/Hwy5	29177	96	43:17	79:59	T	12	.	.	.	.	.	.	.
Hamilton	Hillyard St	29531	96	43:29	79:55	T	7	.	.	.	.	.	.	.
Toronto	Bruce Ps, 51 Larchmount Avenue	31045	75	43:39	79:25	T	21	.	.	.	.	.	.	.
Toronto	Perth/Ruskin (Junction Triangle)	31120	82	43:40	79:27	T	18	.	.	.	.	.	.	.
Scarborough	Lawrence/Kennedy Ave.	33003	75	43:45	79:16	T	12	T	76	.	.	T	.	.
Etobicoke	Evans/Arnold Avenue	35033	75	43:37	79:31	T	10	T	30	T	91	T	T	T
York	Clearview Heights	36030	99	43:42	79:29	T	10	.	.	.	.	.	.	.
Burlington	HWY 2/ North Shore Blvd.	44008	79	43:19	79:48	T	10	.	.	.	.	.	.	.
Oakville	Bronte Road/Woburn Crescent	44015	80	43:24	79:44	T	10	.	.	.	.	.	.	.
Stouffville	Highway 47 East Of Highway 48	48002	82	43:58	79:16	T	10	.	.	.	.	T	.	.
Kingston	133 Dalton Street	52020	93	44:15	76:31	T	10	.	.	.	.	.	.	.
Cornwall	Memorial Park	56051	85	45:01	74:44	T	10	.	.	.	.	.	.	.
Peterborough	10 Hospital Drive	59006	99	44:18	78:21	T	10	.	.	.	.	.	.	.
Dryden	35 Van Horne Avenue	61027	84	49:47	92:50	T	18	.	.	.	.	T	.	.
Fort Frances	Eighth Street/Cornwall Avenue	62047	90	48:37	93:25	T	10	.	.	.	.	T	.	.
Marathon	Peter Street	63033	91	48:43	86:23	T	8	.	.	.	.	.	.	.
Terrace Bay	St Martin School, Selkirk St	63090	82	48:47	87:05	T	12	.	.	.	.	T	.	.
Thunder Bay	MOT 615 James Street South	63200	90	48:22	89:17	T	10	.	.	.	.	.	.	.
Sault Ste Marie	Wm. Merrifield School	71068	87	46:32	84:21	T	10	.	.	.	.	T	.	.
Hearst	MNR, 613 Front St	72113	95	49:41	83:39	T	16	.	.	.	.	.	.	.
North Bay	Chippewa St	75010	87	46:19	79:27	T	10	.	.	.	.	T	.	.
Sudbury	Hanmer	77013	82	46:39	80:57	T	10	.	.	.	.	T	.	.
Sudbury	CKNC-TV, 699 Frood Road	77025	73	46:30	81:00	T	10	.	.	T	100	T	.	T
Sudbury	Robinson School	77225	99	46:46	81:09	.	.	.	.	.	.	T	.	.

LEGEND:

WS1/WD1 - WIND SPEED AND DIRECTION BELOW 23 M
WS2/WD2 - WIND SPEED AND DIRECTION 23 M TO 76 M
WS3/WD3 - WIND SPEED AND DIRECTION ABOVE 76 M
HT1 - SENSOR HEIGHT (METERS) LEVEL 1
HT2 - SENSOR HEIGHT (METERS) LEVEL 2
HT3 - SENSOR HEIGHT (METERS) LEVEL 3
TEM - AMBIENT TEMPERATURE
DT1 - TEMPERATURE DIFFERENCE LEVEL 2 MINUS 1
DT2 - TEMPERATURE DIFFERENCE LEVEL 3 MINUS 1

Table 5 Sulphur Dioxide (SO_2) Statistics (1999)

Unit: parts per billion (ppb)
SO_2 1-hour AAQC is 250 ppb
SO_2 24-hour AAQC is 100 ppb
SO_2 1-year AAQC is 20 ppb

				PERCENTILES							Maximum		# of times above Criteria		
Stn #	City	Location	Valid h	10%	30%	50%	70%	90%	99%	Mean	1h	24h	1h	24h	1y
12007	Windsor	Wright/Water St	8016	1	2	4	6	12	24	5.4	58	21.0	0	0	0
12008	Windsor	467 University Av W	8517	1	2	4	7	15	41	6.7	91	37.5	0	0	0
12009	Windsor	9725 Riverside Dr E	6863	0	1	2	4	10	26	4.0	68	14.7	0	0	0
12016	Windsor	College/South St	8347	1	3	7	11	21	51	9.6	138	41.8	0	0	0
14016	Courtright	Hwy40 (OPP Lambton GS)	8055	2	4	6	8	15	58	8.4	182	69.6	0	0	0
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8736	2	3	4	7	29	118	11.8	188	95.8	0	0	0
15025	London	900 Hightbury Ave.	8427	0	2	3	6	10	29	4.9	109	28.6	0	0	0
22071	Simcoe	Experimental Farm	8381	0	1	2	4	9	21	3.7	67	15.0	0	0	0
22086	Nanticoke	Cheapside Rd(3 Km S of Hwy 3)	8570	0	1	2	5	11	32	4.6	191	21.3	0	0	0
22901	Long Point	Provincial Park	8513	1	2	3	4	8	17	3.7	77	15.8	0	0	0
22904	Nanticoke	Walpole S Ps Sandusk Rd	8630	0	2	3	5	12	32	5.2	184	28.3	0	0	0
22907	Nanticoke	Rainham Rd (Near Stelco Gate)	8044	2	3	4	7	16	46	7.2	104	59.7	0	0	0
26060	Kitchener	West Ave/Homewood	8570	1	1	2	4	8	16	3.4	36	16.8	0	0	0
26070	Elmira	Union/Park	3554	0	1	1	2	6	35	INS	94	14.0	0	0	0
27067	St Catharines	Argyle Cres (Pump Stn)	8048	0	0	1	3	6	13	2.2	31	9.2	0	0	0
29000	Hamilton	Elgin/Kelly St	8538	1	2	4	7	15	39	6.6	80	23.3	0	0	0
29025	Hamilton	Barton/Sanford	8497	0	2	4	7	19	47	7.1	90	33.1	0	0	0
29102	Hamilton	467 Beach Blvd	8335	0	1	3	8	27	69	9.1	155	49.6	0	0	0
29114	Hamilton	Vickers Rd/East 18Th St	8433	1	2	3	6	14	31	5.5	73	26.0	0	0	0
29118	Hamilton	Main St W/Hwy403	8616	0	1	3	5	11	25	4.5	58	16.0	0	0	0
31103	Toronto	Bay/Wellesley	1611	2	3	4	6	10	21	INS	70	14.6	0	0	0
33003	Scarborough	Lawrence/Kennedy	8712	2	3	4	5	9	20	4.9	46	19.1	0	0	0
34020	North York	Hendon Ave (Yonge/Finch)	8715	2	3	4	5	9	24	5.0	57	21.3	0	0	0
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	5676	1	1	2	4	9	23	INS	217	25.5	0	0	0
35033	Etobicoke	Evans/Arnold Av	6289	3	5	6	8	11	23	6.9	63	24.8	0	0	0
36030	York	Clearview Ht. GS/Keele St	7129	1	3	4	5	9	24	4.9	91	20.5	0	0	0
44008	Burlington	Hwy2/North Shore Blvd E	7256	1	3	4	6	9	22	4.9	132	22.5	0	0	0
44015	Oakville	Bronte Rd/Woburn Cres	6946	0	2	3	5	9	19	4.0	81	21.4	0	0	0
45025	Oshawa	Ps Ritson Rd/Olive Av	8733	2	3	4	5	10	20	5.1	39	16.4	0	0	0
46110	Mississauga	Queensway W/Hurontario St	8701	2	2	3	5	9	25	4.7	133	18.3	0	0	0
46117	Mississauga	Meadow Pk, Apple Lane Club	7867	1	2	3	4	8	19	3.8	54	16.4	0	0	0

Table 5 Sulphur Dioxide (SO_2) Statistics (1999)

Unit: parts per billion (ppb)

SO_2 1-hour AAQC is 250 ppb

SO_2 24-hour AAQC is 100 ppb

SO_2 1-year AAQC is 20 ppb

				PERCENTILES							Maximum		# of times above Criteria		
Stn #	City	Location	Valid h	10%	30%	50%	70%	90%	99%	Mean	1h	24h	1h	24h	1y
51001	Ottawa	Mcd Gds, Rideau/Wurtemburg St	8607	1	3	4	5	8	11	4.2	22	10.0	0	0	0
56051	Cornwall	Memorial Pk Bedford/Third	8149	1	2	3	4	8	26	3.9	86	20.8	0	0	0
59006	Peterborough	10 Hospital Drive	8099	0	0	1	2	4	11	1.7	26	10.3	0	0	0
62045	Int'l Falls	US Customs Bldg	7905	0	0	0	0	0	1	0.0	16	1.3	0	0	0
63200	Thunder Bay	MTC 615 James St S	8455	0	0	0	0	1	7	0.4	31	4.7	0	0	0
71068	Sault Ste Marie	Wm. Merrifield School	8210	0	0	0	1	4	29	1.9	113	25.8	0	0	0
77012	Sudbury	Skead	8742	0	0	1	2	10	86	5.3	575	59.7	5	0	0
77013	Sudbury	Hanmer	8625	0	0	1	2	6	58	3.9	424	66.0	4	0	0
77016	Sudbury	Water Tank Ash St	8650	0	1	1	3	12	77	5.7	376	39.8	3	0	0
77028	Coniston	Government Rd/Edward St	8322	0	0	1	1	5	53	3.0	339	32.5	1	0	0
77065	Garson	Falconbridge Rd	8722	0	0	1	2	6	71	4.0	342	37.6	3	0	0
77075	New Sudbury	Kennedy St	8747	0	1	1	2	9	81	5.2	461	51.1	5	0	0
77096	Sudbury	Long Lake Rd (Villa Loyola)	4110	0	0	1	2	8	88	INS	593	68.5	6	0	0
77201	Sudbury	Mikkola (J. Hamilton School)	8745	0	0	1	1	4	80	3.7	399	51.3	9	0	0
77203	Sudbury	Science North	8725	0	0	1	2	6	42	3.0	281	24.6	1	0	0
77206	Rayside	St Laurent/Regional Rd	8614	0	0	0	1	4	33	2.1	263	36.5	1	0	0
77218	Copper Cliff	Market Street	8536	0	0	1	3	14	105	6.4	612	67.4	7	0	0
77225	Sudbury	Robinson School	8731	0	0	1	2	7	61	4.0	400	45.4	9	0	0
77228	Sudbury	Mary/Glover St	8604	0	0	1	3	7	48	3.8	325	54.4	4	0	0

Table 6 Suspended Particles (SP) Statistics (1999)

Unit: COHS/1000 FT
COH 24-hour AAQC is 1.0 COH unit
COH 1-year AAQC is 0.5 COH unit

Stn	City	Location	Valid h	PERCENTILES							Maximum		# of times above Criteria	
				10%	30%	50%	70%	90%	99%	Mean	1h	24h	24h	1y
12008	Windsor	467 University Av W	8294	0.0	0.1	0.2	0.2	0.4	0.8	0.19	1.9	0.55	0	0
12016	Windsor	College/South St	7798	0.1	0.1	0.2	0.3	0.5	1.1	0.24	3.6	1.17	1	0
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8709	0.0	0.1	0.1	0.2	0.4	0.8	0.18	1.8	0.75	0	0
15025	London	900 Hightbury Ave.	8504	0.0	0.1	0.1	0.2	0.3	0.6	0.14	1.9	0.78	0	0
22907	Nanticoke	Rainham Rd (Near Stelco Gate)	8637	0.0	0.1	0.1	0.2	0.3	0.6	0.16	3.5	0.54	0	0
26060	Kitchener	West Ave/Homewood	8710	0.0	0.1	0.1	0.2	0.4	0.8	0.17	2.7	0.74	0	0
27067	St Catharines	Argyle Cres (Pump Stn)	8395	0.0	0.1	0.2	0.2	0.4	0.9	0.20	2.6	0.68	0	0
29000	Hamilton	Elgin/Kelly St	8414	0.1	0.1	0.2	0.3	0.5	1.0	0.25	2.1	0.83	0	0
29025	Hamilton	Barton/Sanford	7611	0.1	0.2	0.2	0.3	0.6	1.2	0.30	4.8	0.93	0	0
29102	Hamilton	467 Beach Blvd	7871	0.1	0.2	0.3	0.4	0.7	1.2	0.34	2.8	1.06	1	0
29114	Hamilton	Vickers Rd/East 18Th St	8666	0.0	0.1	0.1	0.2	0.4	0.9	0.19	1.8	0.75	0	0
29118	Hamilton	Main St W/Hwy403	8584	0.0	0.1	0.2	0.3	0.6	1.1	0.25	1.8	0.95	0	0
29531	Hamilton	Hillyard St	8283	0.1	0.3	0.4	0.6	1.1	2.7	0.54	5.0	2.28	21	1
29547	Hamilton	Pier 25	7928	0.1	0.2	0.3	0.4	0.7	1.2	0.34	3.1	1.12	1	0
35033	Etobicoke	Evans/Arnold Av	6492	0.1	0.2	0.3	0.4	0.6	1.3	0.33	3.6	1.20	1	0
36030	York	Clearview Ht. GS/Keele St	6696	0.1	0.1	0.2	0.3	0.5	1.2	0.26	2.4	0.94	0	0
44015	Oakville	Bronte Rd/Woburn Cres	6958	0.0	0.1	0.2	0.3	0.5	0.9	0.22	2.5	0.84	0	0
46110	Mississauga	Queensway W/Hurontario St	8288	0.1	0.1	0.2	0.3	0.6	1.5	0.30	4.3	1.13	2	0
51001	Ottawa	Mcd Gds, Rideau/Wurtemburg St	2614	0.0	0.1	0.1	0.2	0.4	0.9	0.18	1.6	0.80	0	0
52020	Kingston	133 Dalton Street	1593	0.0	0.0	0.0	0.1	0.1	0.3	INS	0.8	0.18	0	INS
56051	Cornwall	Memorial Pk Bedford/Third	6968	0.0	0.1	0.1	0.1	0.3	0.7	0.13	1.9	0.65	0	0
62200	Fort Frances	Robert Moore PS	8658	0.0	0.0	0.1	0.1	0.2	0.4	0.08	3.2	0.30	0	0
63200	Thunder Bay	MTC 615 James St S	7880	0.0	0.0	0.1	0.1	0.4	0.8	0.13	2.1	0.56	0	0
71068	Sault Ste Marie	Wm. Merrifield School	8022	0.0	0.1	0.1	0.2	0.4	1.0	0.19	2.5	0.71	0	0
75010	North Bay	Dept National Defence Chippewa St	8473	0.0	0.1	0.1	0.2	0.3	0.6	0.15	1.6	0.55	0	0
77203	Sudbury	Science North	8542	0.0	0.0	0.1	0.1	0.2	0.5	0.11	1.3	0.44	0	0

Table 7 Total Reduced Sulphur (TRS) Statistics (1999)

Unit: parts per billion (ppb)

TRS 1-hour AAQC is 27 ppb

				PERCENTILES							Maximum		Exceedances of Pulp Mill Criterion
Stn #	City	Location	Valid h	10%	30%	50%	70%	90%	99%	Mean	1h	24h	1h
12007	Windsor	Wright/Water St	8293	0	0	0	1	3	14	1.3	54	13.5	19
12016	Windsor	College/South St	8357	0	0	0	0	1	7	0.5	30	5.0	1
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8726	0	0	0	1	1	3	0.5	9	2.8	0
22904	Nanticoke	Walpole S Ps Sandusk Rd	8698	0	1	1	1	2	3	1.0	17	4.6	0
22907	Nanticoke	Rainham Rd (Near Stelco Gate)	8595	0	1	1	1	2	7	1.1	23	6.2	0
26070	Elmira	Union/Park	3413	0	0	1	1	2	7	INS	24	4.9	0
29000	Hamilton	Elgin/Kelly St	8228	0	0	0	1	2	7	0.6	18	4.6	0
29025	Hamilton	Barton/Sanford	7475	0	0	1	1	3	8	1.2	18	9.6	0
29102	Hamilton	467 Beach Blvd	7613	0	0	1	1	3	10	1.3	29	8.4	1
29114	Hamilton	Vickers Rd/East 18Th St	4293	0	0	0	1	1	4	INS	11	3.4	0
29118	Hamilton	Main St W/Hwy403	8541	0	0	1	1	2	4	0.9	10	3.5	0
29531	Hamilton	Hillyard St	7990	0	0	1	1	4	11	1.3	32	8.1	3
29547	Hamilton	Pier 25	7606	0	0	1	3	7	22	2.7	82	29.7	48
44015	Oakville	Bronte Rd/Woburn Cres	7052	1	1	1	2	2	4	1.4	10	3.8	0
46117	Mississauga	Meadow Pk, Apple Lane Club	8602	0	1	1	1	2	3	1.1	5	3.0	0
56051	Cornwall	Memorial Pk Bedford/Third	7513	0	0	0	1	3	6	0.9	20	7.0	0
61027	Dryden	35 Van Horne Av	8053	0	0	0	0	1	9	0.5	77	12.3	9
62030	Fort Frances	Portage/Church St	8448	0	0	0	1	7	21	2.4	353	67.9	42
62032	Fort Frances	Cemetery, Colonization Rd W	8204	0	0	0	0	2	11	1.0	305	39.3	30
62045	Int'l Falls	US Customs Bldg	7893	0	0	0	2	10	29	3.0	245	24.5	91
62047	Fort Frances	Eighth St/Cornwall Ave	8430	0	0	0	1	4	44	2.6	493	101.7	181
62200	Fort Frances	Robert Moore PS	8425	0	0	0	0	2	14	1.2	491	96.1	39
63033	Marathon	Water Tower	8211	0	0	0	0	0	2	0.1	19	2.1	0
63046	Thunder Bay	Can-Car Montreal St	8580	0	0	0	0	4	14	1.2	87	12.2	13
63084	Red Rock	Recreation Centre	8588	0	0	0	0	8	72	3.8	190	54.8	357
63090	Terrace Bay	St Martin School	8504	0	0	0	0	1	8	0.5	45	6.6	2
63092	Terrace Bay	Terrace Heights Dr	8270	0	0	0	0	2	15	0.9	153	10.5	25
63200	Thunder Bay	MTC 615 James St S	8218	0	0	0	0	0	4	0.2	59	4.3	1
71068	Sault Ste Marie	Wm. Merrifield School	8187	0	0	0	0	1	4	0.2	25	4.8	0
77203	Sudbury	Science North	8703	0	0	0	0	1	1	0.2	11	1.4	0

Table 8 Carbon Monoxide (CO) Statistics (1999)

Unit: parts per million (ppm)
CO 1-hour AAQC is 30 ppm
CO 8-hour AAQC is 13 ppm

				PERCENTILES							Maximum		# of times above Criteria	
Stn	City	Location	Valid h	10%	30%	50%	70%	90%	99%	Mean	1h	8h	1h	8h
12008	Windsor	467 University Av W	8595	0	0	0	1	1	2	0.5	7	3.1	0	0
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	7962	0	0	0	0	1	1	0.2	4	1.5	0	0
15025	London	900 Hightbury Ave.	8619	0	0	0	0	1	1	0.2	3	2.3	0	0
26060	Kitchener	West Ave/Homewood	8484	0	0	0	0	1	2	0.3	5	2.3	0	0
27067	St Catharines	Argyle Cres (Pump Stn)	7330	0	0	0	0	1	2	0.2	5	2.1	0	0
29000	Hamilton	Elgin/Kelly St	8395	1	1	1	1	1	2	1.0	5	2.1	0	0
29118	Hamilton	Main St W/Hwy403	7771	0	0	0	1	1	2	0.5	3	2.4	0	0
31103	Toronto	Bay/Wellesley	1635	1	1	1	1	1	2	INS	3	2.3	0	0
33003	Scarborough	Lawrence/Kennedy	8715	0	1	1	1	1	2	0.9	5	2.8	0	0
34020	North York	Hendon Ave (Yonge/Finch)	8724	0	1	1	1	1	2	0.8	5	3.4	0	0
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	5842	0	1	1	1	2	3	1.0	5	2.9	0	0
35033	Etobicoke	Evans/Arnold Av	6872	1	1	1	2	2	3	1.4	5	3.1	0	0
36030	York	Clearview Ht. GS/Keele St	7142	0	0	1	1	1	3	0.6	7	4.1	0	0
44008	Burlington	Hwy2/North Shore Blvd E	6951	0	1	1	1	1	2	0.7	4	2.0	0	0
44015	Oakville	Bronte Rd/Woburn Cres	7059	0	0	0	0	1	1	0.1	3	1.5	0	0
45025	Oshawa	Ps Ritson Rd/Olive Av	8711	0	0	1	1	1	2	0.7	7	3.4	0	0
46110	Mississauga	Queensway W/Hurontario St	8423	0	0	1	1	1	2	0.7	8	3.6	0	0
51001	Ottawa	Mcd Gds, Rideau/Wurtemburg St	8594	0	1	1	1	1	2	0.9	3	2.8	0	0
56051	Cornwall	Memorial Pk Bedford/Third	8687	0	0	0	1	1	2	0.4	4	2.3	0	0
59006	Peterborough	10 Hospital Drive	8726	0	1	1	1	1	2	0.8	5	3.0	0	0
63200	Thunder Bay	MTC 615 James St S	8442	0	0	1	1	1	2	0.6	5	2.6	0	0
77203	Sudbury	Science North	8711	0	0	0	0	0	1	0.0	3	2.4	0	0

Table 9 Nitrogen Dioxide (NO_2) Statistics (1999)

Unit: parts per billion (ppb)
NO_2 1-hour AAQC is 200 ppb
NO_2 24-hour AAQC is 100 ppb

			PERCENTILES							Maximum		# of times above Criteria	
Stn #	City	Location	Valid h	10%	30%	50%	70%	90%	99%	Mean	1h	24h	1h	24h
12008	Windsor	467 University Av W	8606	9	15	21	28	39	59	22.9	90	49.5	0	0
12009	Windsor	9725 Riverside Dr E	7826	3	7	12	18	28	44	14.1	85	40.3	0	0
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8674	4	8	13	21	34	54	16.7	122	51.7	0	0
15013	Parkhill	Puc Bldg	1540	5	6	10	15	23	43	INS	66	33.2	0	0
15025	London	900 Hightbury Ave.	8473	6	12	17	24	36	55	19.4	90	53.5	0	0
22071	Simcoe	Experimental Farm	8023	3	5	8	11	17	35	9.3	80	34.0	0	0
22086	Nanticoke	Cheapside Rd(3 Km S of Hwy 3)	8206	3	4	6	9	15	28	7.8	63	25.7	0	0
22901	Long Point	Provincial Park	8463	2	3	5	7	14	30	6.6	54	26.5	0	0
26060	Kitchener	West Ave/Homewood	8335	4	7	11	17	28	47	14.0	97	53.2	0	0
27067	St Catharines	Argyle Cres (Pump Stn)	7318	6	10	13	19	31	50	16.2	75	49.3	0	0
29000	Hamilton	Elgin/Kelly St	8502	9	14	19	26	38	56	21.6	96	56.3	0	0
29102	Hamilton	467 Beach Blvd	6528	10	18	28	36	48	72	28.4	143	73.0	0	0
29114	Hamilton	Vickers Rd/East 18Th St	8618	4	8	12	18	30	48	14.8	87	44.3	0	0
29118	Hamilton	Main St W/Hwy403	8650	8	13	19	27	39	60	21.8	152	56.9	0	0
31103	Toronto	Bay/Wellesley	7595	13	20	26	32	42	62	26.9	106	68.7	0	0
31190	Toronto	CN Tower, 301 Front St W **	8726	2	5	8	12	21	39	10.2	91	31.9	0	0
33003	Scarborough	Lawrence/Kennedy	8709	9	17	23	30	42	62	24.6	107	60.9	0	0
34020	North York	Hendon Ave (Yonge/Finch)	8716	7	14	23	32	44	62	24.3	104	56.0	0	0
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	5838	10	16	23	31	41	63	24.7	120	59.1	0	0
35033	Etobicoke	Evans/Arnold Av	6984	13	20	26	33	46	70	28.4	106	60.5	0	0
36030	York	Clearview Ht. GS/Keele St	5850	6	9	13	19	27	46	15.5	151	53.1	0	0
44008	Burlington	Hwy2/North Shore Blvd E	7334	7	14	20	29	41	66	22.9	120	55.3	0	0
44015	Oakville	Bronte Rd/Woburn Cres	7039	5	10	15	22	31	48	17.2	80	38.7	0	0
45025	Oshawa	Ps Ritson Rd/Olive Av	8731	6	12	20	28	39	59	21.5	95	52.9	0	0
46110	Mississauga	Queensway W/Hurontario St	8702	10	16	22	29	41	63	24.2	103	58.9	0	0
48002	Stouffville	Hwy47/E of Hwy48	8734	4	6	9	14	26	44	12.4	71	38.0	0	0
49010	Dorset	Hwy 117/Paint Lake Rd	5107	1	1	2	3	7	25	INS	45	27.5	0	0
51001	Ottawa	Mcd Gds, Rideau/Wurtemburg St	8592	1	5	9	16	27	47	12.2	93	53.9	0	0
56051	Cornwall	Memorial Pk Bedford/Third	7060	2	6	8	12	22	36	10.3	62	26.5	0	0
59006	Peterborough	10 Hospital Drive	8270	3	5	8	13	24	42	11.1	64	34.6	0	0
63200	Thunder Bay	MTC 615 James St S	6045	3	7	12	18	32	56	15.1	79	40.0	0	0
71068	Sault Ste Marie	Wm. Merrifield School	2541	3	6	11	19	34	48	INS	66	35.3	0	0
77203	Sudbury	Science North	8724	1	3	6	9	16	38	7.7	52	27.7	0	0

** CN Tower Site - measurements taken at 444 m level

Table 10 Nitrogen Oxide (NO) Statistics (1999)

Unit: parts per billion (ppb)

				PERCENTILES							Maximum	
Stn #	City	Location	Valid h	10%	30%	50%	70%	90%	99%	Mean	1h	24h
12008	Windsor	467 University Av W	8508	2	4	7	12	31	109	13.3	308	74.2
12009	Little River	9725 Riverside Dr E	7858	1	3	4	6	16	61	7.7	189	50.0
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8673	1	2	4	6	16	56	7.1	176	50.2
15013	Parkhill	Puc Bldg	1537	0	0	1	2	5	13	INS	51	9.5
15025	London	900 Hightbury Ave.	8467	1	2	4	6	18	92	8.5	243	77.4
22071	Simcoe	Experimental Farm	7885	0	0	1	1	4	13	1.5	44	13.0
22086	Nanticoke	Cheapside Rd(3 Km S of Hwy 3)	8206	2	2	3	3	6	16	3.4	72	12.6
22901	Long Point	Provincial Park	8468	0	0	0	0	2	10	0.6	97	8.8
26060	Kitchener	West Ave/Homewood	8192	0	1	2	4	13	81	6.6	348	104.3
27067	St Catharines	Argyle Cres (Pump Stn)	7012	0	1	3	8	29	114	11.7	472	112.8
29000	Hamilton	Elgin/Kelly St	8507	0	2	4	9	28	132	12.0	447	102.7
29102	Hamilton	467 Beach Blvd	6557	2	5	13	26	57	156	23.9	357	149.8
29114	Hamilton	Vickers Rd/East 18Th St	8547	1	2	3	5	14	75	6.7	201	64.0
29118	Hamilton	Main St W/Hwy403	8617	1	3	6	16	66	234	23.4	494	164.7
31103	Toronto	Bay/Wellesley	7595	1	3	7	15	42	119	15.8	266	101.9
31190	Toronto	CN Tower, 301 Front St W **	8726	0	1	1	2	6	31	2.9	301	38.6
33003	Scarborough	Lawrence/Kennedy	8709	1	4	10	20	50	169	20.7	429	123.5
34020	North York	Hendon Ave (Yonge/Finch)	8716	1	2	6	14	44	140	16.5	433	171.7
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	5838	0	2	5	14	57	216	20.8	484	183.3
35033	Etobicoke	Evans/Arnold Av	6972	1	6	13	26	67	198	27.1	847	142.9
36030	York	Clearview Ht. GS/Keele St	7060	3	5	7	12	48	159	19.1	811	191.1
44008	Burlington	Hwy2/North Shore Blvd E	7320	6	8	11	18	47	202	22.6	464	187.2
44015	Oakville	Bronte Rd/Woburn Cres	6893	1	3	5	8	32	132	13.0	459	147.6
45025	Oshawa	Ps Ritson Rd/Olive Av	8731	2	3	5	12	38	139	15.1	357	120.9
46110	Mississauga	Queensway W/Hurontario St	8702	1	3	7	15	53	208	21.3	607	191.3
48002	Stouffville	Hwy47/E of Hwy48	8734	0	1	2	4	10	53	4.9	334	107.3
49010	Dorset	Hwy 117/Paint Lake Rd	5549	0	0	0	0	0	6	0.2	19	12.1
51001	Ottawa	Mcd Gds, Rideau/Wurtemburg St	8577	5	8	13	15	24	78	14.8	225	82.8
56051	Cornwall	Memorial Pk Bedford/Third	6942	0	1	2	4	12	99	6.6	297	62.9
59006	Peterborough	10 Hospital Drive	8270	0	1	2	3	9	60	4.6	179	69.5
63200	Thunder Bay	MTC 615 James St S	6045	1	2	5	10	33	134	13.4	329	84.6
71068	Sault Ste Marie	Wm. Merrifield School	2536	0	2	3	7	20	85	INS	177	44.9
77203	Sudbury	Science North	8724	0	2	3	5	9	43	5.0	146	39.7

** CN Tower Site - measurements taken at 444 m level

Table 11 Total Nitrogen Oxides (NOx) Statistics (1999)

Unit: parts per billion (ppb)

				PERCENTILES								Maximum	
Stn #	City	Location	Valid h	10%	30%	50%	70%	90%	99%	Mean	1h	24h
12008	Windsor	467 University Av W	8493	14	21	29	40	67	154	37.0	370	124.3
12009	Little River	9725 Riverside Dr E	6263	7	11	16	24	43	94	21.6	229	75.1
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8673	6	11	16	26	49	105	23.5	272	90.0
15013	Parkhill	Puc Bldg	1539	6	8	12	18	29	47	INS	118	43.2
15025	London	900 Hightbury Ave.	8469	8	13	19	27	49	137	25.9	316	116.1
22071	Simcoe	Experimental Farm	8010	3	6	8	12	20	42	10.4	75	40.2
22086	Nanticoke	Cheapside Rd(3 Km S of Hwy 3)	8206	5	7	9	12	20	39	11.2	135	37.3
22901	Long Point	Provincial Park	8470	2	4	5	8	16	36	7.5	98	35.1
26060	Kitchener	West Ave/Homewood	8319	6	9	14	21	40	118	20.5	380	157.0
27067	St Catharines	Argyle Cres (Pump Stn)	7547	7	12	16	24	49	136	24.8	498	129.9
29000	Hamilton	Elgin/Kelly St	8503	11	17	25	35	65	173	34.0	501	142.3
29102	Hamilton	467 Beach Blvd	6555	13	26	43	63	98	207	51.8	433	191.9
29114	Hamilton	Vickers Rd/East 18Th St	8613	7	11	15	23	44	111	22.0	253	108.0
29118	Hamilton	Main St W/Hwy403	8656	11	17	26	42	104	281	45.1	544	205.9
31103	Toronto	Bay/Wellesley	7595	15	23	32	47	81	165	41.9	331	137.5
31190	Toronto	CN Tower, 301 Front St W **	8726	3	6	9	14	26	66	12.9	392	65.0
33003	Scarborough	Lawrence/Kennedy	8709	11	22	34	49	89	219	44.9	488	176.7
34020	North York	Hendon Ave (Yonge/Finch)	8716	9	17	30	47	83	187	40.7	488	210.8
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	5838	11	20	29	46	93	265	45.4	555	226.2
35033	Etobicoke	Evans/Arnold Av	6986	17	29	42	60	113	254	56.6	918	176.5
36030	York	Clearview Ht. GS/Keele St	6560	8	13	20	31	74	200	33.6	933	244.2
44008	Burlington	Hwy2/North Shore Blvd E	7333	13	22	32	47	87	259	45.4	530	235.4
44015	Oakville	Bronte Rd/Woburn Cres	7039	7	13	19	30	62	162	29.6	503	179.1
45025	Oshawa	Ps Ritson Rd/Olive Av	8731	7	15	26	40	75	178	35.8	422	147.8
46110	Mississauga	Queensway W/Hurontario St	8702	13	21	30	45	91	253	45.3	666	220.7
48002	Stouffville	Hwy47/E of Hwy48	8734	5	8	12	18	34	91	17.4	380	144.3
49010	Dorset	Hwy 117/Paint Lake Rd	5553	1	1	2	2	7	32	INS	54	33.7
51001	Ottawa	Mcd Gds, Rideau/Wurtemburg St	8592	11	16	21	29	51	115	27.5	287	126.4
56051	Cornwall	Memorial Pk Bedford/Third	7059	3	7	10	16	35	126	16.8	316	83.2
59006	Peterborough	10 Hospital Drive	8270	4	6	10	16	32	96	15.6	198	100.1
63200	Thunder Bay	MTC 615 James St S	6045	5	10	17	29	64	181	28.7	401	125.0
71068	Sault Ste Marie	Wm. Merrifield School	2537	4	8	14	25	52	127	INS	241	79.0
77203	Sudbury	Science North	8724	4	6	9	13	23	78	12.7	195	60.3

** CN Tower Site - measurements taken at 444 m level

Table 12 Ozone (O_3) Statistics (1999)

Unit: parts per billion (ppb)

O_3 1-hour AAQC is 80 ppb

Stn #	City	Location	Valid h	PERCENTILE						Arith.	Maximum		# of times above Criterion
				10	30	50	70	90	99	Mean	1h	24h	1 h
12008	Windsor	467 University Av W	8604	1	9	19	28	47	83	21.7	112	76.9	106
12016	Windsor	College/South St	8430	0	6	15	25	44	80	18.9	129	66.8	79
13021	Merlin	MOE Water Pump Stn Middle Rd	7144	6	16	24	33	53	87	27.2	129	76.1	132
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	8556	4	16	25	34	47	80	26.5	145	67.5	85
14118	Mandaumin	Concession Rd 26	8286	8	19	27	35	51	85	29.0	135	76.6	145
15009	Longwoods	Longwoods Conservation	7282	5	16	25	33	49	85	26.5	114	65.6	102
15013	Parkhill	Puc Bldg	6386	9	20	27	36	54	88	30.0	116	78.1	128
15020	Grand Bend	Water Treatment Plant	7067	10	23	30	38	57	96	32.5	130	83.6	211
15025	London	900 Hightbury Ave.	8688	4	15	23	31	50	83	25.8	117	76.7	110
18007	Tiverton	Concession Rd 2 Lot A	5061	16	26	32	40	66	101	INS	139	86.3	243
22071	Simcoe	Experimental Farm	8489	11	21	29	38	55	82	31.3	105	79.9	108
22901	Long Point	Provincial Park	8336	15	25	33	41	62	94	35.6	119	83.2	272
26060	Kitchener	West Ave/Homewood	8702	1	14	24	33	48	78	25.2	116	80.7	77
27067	St Catharines	Argyle Cres (Pump Stn)	8589	0	11	20	29	45	76	21.7	98	69.9	42
29000	Hamilton	Elgin/Kelly St	8431	0	9	17	25	41	70	19.5	93	67.3	24
29114	Hamilton	Vickers Rd/East 18Th St	8719	2	14	22	31	47	74	24.1	91	70.1	28
29118	Hamilton	Main St W/Hwy403	8676	2	9	18	27	41	70	20.0	94	69.6	22
31103	Toronto	Bay/Wellesley	7681	3	9	17	26	43	71	20.2	96	60.3	26
31190	Toronto	CN Tower, 301 Front St W **	8728	19	29	37	47	66	96	40.3	149	100.7	368
33003	Scarborough	Lawrence/Kennedy	8711	1	9	19	28	46	79	21.5	113	67.3	77
34020	North York	Hendon Ave (Yonge/Finch)	8721	3	11	21	31	45	72	22.8	105	66.3	43
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	5835	2	6	16	25	37	65	18.2	106	46.5	14
35033	Etobicoke	Evans/Arnold Av	7079	4	9	17	26	47	81	21.5	100	62.5	75
36030	York	Clearview Ht. GS/Keele St	7027	3	9	20	31	48	82	23.3	112	64.8	78
44008	Burlington	Hwy2/North Shore Blvd E	7335	4	14	24	35	51	78	26.2	112	66.8	60
44015	Oakville	Bronte Rd/Woburn Cres	7007	1	10	21	30	45	74	22.4	93	56.3	34
45025	Oshawa	Ps Ritson Rd/Olive Av	8730	5	15	24	33	45	72	25.0	113	60.6	52
46110	Mississauga	Queensway W/Hurontario St	8703	2	10	19	29	46	82	22.2	107	67.8	97
48002	Stouffville	Hwy47/E of Hwy48	8732	9	22	30	39	53	82	31.2	122	86.3	102
49010	Dorset	Hwy 117/Paint Lake Rd	8096	11	24	31	38	48	74	31.0	101	67.6	37
51001	Ottawa	Mcd Gds, Rideau/Wurtemburg St	8592	3	13	20	27	38	61	21.2	90	55.0	7
52020	Kingston	133 Dalton Ave	7926	1	10	20	29	44	74	21.5	103	60.7	40
56051	Cornwall	Memorial Pk Bedford/Third	8275	5	17	24	32	46	73	25.8	99	74.6	32

Table 12 Ozone (O_3) Statistics (1999)

Unit: parts per billion (ppb)

O_3 1-hour AAQC is 80 ppb

				P E C E N T I L E						Arith.	Maximum		# of times above Criterion
Stn #	City	Location	Valid h	10	30	50	70	90	99	Mean	1h	24h	1 h
59006	Peterborough	10 Hospital Drive	8716	10	23	30	38	51	82	31.4	109	70.6	100
62200	Fort Frances	Robert Moore PS	8660	8	18	25	32	43	65	25.7	83	71.2	3
63200	Thunder Bay	615 James St S	8410	3	14	23	30	40	57	22.5	79	66.6	0
71068	Sault Ste Marie	Wm. Merrifield School	7869	4	16	24	31	44	68	24.1	88	68.0	8
75010	North Bay	Dept National Defence - Chippewa St	8595	7	19	29	38	49	77	29.1	108	70.3	55
77203	Sudbury	Science North	8727	12	23	30	37	50	77	30.7	97	77.0	56

** CN Tower site - measurements taken at 444 m level

Table 13 Inhalable Particles (PM_{10}) Statistics (1999)

Unit= micrograms/m^3

PM_{10} 24-hour interim AAQC is 50 micrograms/m^3

Stn #	City	Location	Valid h	PERCENTILES						Mean	Maximum		# of times
				10	30	50	70	90	99		1 h	24 h	above Criterion
12016	Windsor	College/South St	7493	9	15	22	31	48	82	25.9	247	79	15
14064	Sarnia	Centennial Pk, Front St/Cn Tracks	6097	4	8	13	21	40	67	17.6	185	64	6
15025	London	900 Hightbury Ave.	8674	7	12	17	26	43	79	21.9	225	80	14
29025	Hamilton	Barton/Sanford	3305	1	1	12	23	41	87	INS	322	70	6
29531	Hamilton	Hillyard St	8648	9	20	33	51	97	306	50.2	1000	444	136
33003	Scarborough	Lawrence/Kennedy	8166	7	11	16	23	38	66	19.6	179	72	5
35003	Etobicoke	Elmcrest Rd (Centennial Pk)	5825	6	10	15	21	36	62	INS	156	63	2
35033	Etobicoke	Evans/Arnold Av	6909	8	15	21	29	45	77	24.4	194	74	8
44008	Burlington	Hwy2/North Shore Blvd E	5565	6	11	17	24	39	66	INS	141	65	3
48002	Stouffville	Hwy47/E of Hwy48	8732	6	9	14	20	36	67	17.9	155	65	5
52020	Kingston	133 Dalton Street	3413	4	11	17	25	40	81	INS	174	63	3
59006	Peterborough	10 Hospital Drive	8721	5	8	13	19	35	60	16.6	135	61	3
71068	Sault Ste Marie	Wm. Merrifield School	7921	4	8	12	19	40	98	18.4	354	129	13

Note: measurements made by TEOM sampler

Table 14 Respirable Particles ($PM_{2.5}$) Statistics (1999)

Unit= micrograms/m^3

PM_{25} 24-hour proposed CWS is 30 micrograms/m^3

Stn	City	Location	Valid h	PERCENTILES						Arith Mean	Maximum		# of times above Criterion
				10	30	50	70	90	99		1 h	24 h	
12009	Windsor	9725 Riverside Dr E	6807	4	8	13	20	36	63	17.0	147	73.2	37
22071	Simcoe	Experimental Farm	7767	4	6	9	13	25	44	11.8	72	45.2	10
26060	Kitchener	West Ave/Homewood	6185	2	5	8	13	26	46	11.3	85	49.9	10
27067	St Catharines	Argyle Cres (Pump Stn)	8636	4	7	11	16	29	48	14.0	85	50.0	20
29000	Hamilton	Elgin/Kelly St	7999	5	8	12	17	30	50	14.9	78	54.5	23
29114	Hamilton	Vickers Rd/East 18Th St	7492	4	7	10	14	27	49	12.9	72	54.4	13
31103	Toronto	Bay/Wellesley	1640	5	7	9	12	17	31	INS	56	31.3	1
34020	North York	Hendon Ave (Yonge/Finch)	8719	4	7	10	14	27	46	12.7	75	57.5	19
35033	Etobicoke	Evans/Arnold Av	6915	5	8	11	17	29	46	14.2	129	52.5	18
45025	Oshawa	Ps Ritson Rd/Olive Av	8706	4	7	10	14	26	46	12.6	88	61.6	16
46110	Mississauga	Queensway W/Hurontario St	8247	5	7	10	14	24	41	12.3	95	38.2	8
49010	Dorset	Hwy 117/Paint Lake Rd	5373	3	5	8	12	24	43	INS	134	44.0	7
51001	Ottawa	Med Gds, Rideau/Wurtemburg St	8689	4	6	8	11	19	34	9.8	55	38.9	3
71042	Sault Ste Marie	Pumphouse, Bonney St	698	3	5	8	14	22	54	INS	174	25.8	0
75010	North Bay	Dept National Defence - Chippewa St	432	0	5	8	12	20	29	INS	60	15.1	0

Note: measurements made by TEOM sampler

Table 15 Total Suspended Particulate (TSP) Statistics (1999)

Unit= micrograms/cubic metre

TSP 24-hour AAQC is 120 micrograms/m^3

TSP 1-year AAQC is 60 micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max.	Arith Mean	Geom Mean	# of Times Above Criteria 24h	1y
11001	St Marys	309 Thomas St	55	23.4	35.2	62.0	89.2	130.6	179.0	193	70.4	55.4	8	0
12007	Windsor	Wright/Water St	53	38.2	51.0	61.0	80.6	113.8	147.9	151	69.2	62.4	4	1
12008	Windsor	467 University Av W	43	33.8	49.0	63.0	75.8	85.6	121.6	135	62.6	57.3	1	0
12011	Windsor	Drouillard Rd/Richmond St	56	30.0	46.5	57.5	66.5	85.0	112.5	113	58.5	54.1	0	0
12013	Windsor	Filtrat Plt 3665 Wyandotte St E	53	31.8	49.6	70.0	103.0	142.8	217.7	252	81.3	69.6	9	1
12016	Windsor	College/South St	47	29.6	43.6	55.0	69.8	102.0	119.5	120	60.3	54.1	0	0
12038	Windsor	2885 Howard Av	54	31.3	54.0	69.0	85.1	116.0	188.1	248	74.1	65.9	4	1
12058	Windsor	Columbus Centre	58	24.0	37.1	46.0	57.0	76.3	105.9	111	49.4	44.9	0	0
12061	Amherstburg	1.4 km NW Allied Chem	57	31.6	49.0	62.0	81.2	103.0	126.9	128	65.2	59.1	2	0
14016	Courtright	Hwy40 (OPP Lambton GS)	52	19.2	30.0	41.5	48.7	75.9	105.0	105	45.1	39.0	0	0
14030	Corunna	Rrl (W of House)	55	10.4	26.0	34.0	48.6	84.4	114.4	122	42.2	32.0	1	0
15025	London	900 Hightbury Ave.	52	21.1	35.3	44.0	62.1	91.1	138.7	155	52.7	44.5	2	0
17014	Beachville	Cyanamide Rd (Gordon Prop)	51	23.0	39.0	63.0	75.0	108.0	166.5	168	64.0	53.5	3	0
17015	Beachville	26 Vine St (MOE Trailer)	50	20.9	46.8	67.5	88.5	140.3	287.0	287	83.6	63.8	9	1
17020	Ingersoll	Hwy 2 Rr 2 (J Spriel Prop)	52	25.6	52.6	75.5	90.0	129.4	144.4	150	74.4	64.2	8	1
17021	Embro	Oxford Cty Rd 6 (Hesston Farm)	51	38.0	66.0	88.0	130.0	188.0	272.0	281	104.9	85.9	17	1
17215	Beachville	26 Vine St (MOE Trailer)	38	60.4	77.0	98.5	125.7	154.6	233.6	258	INS	INS	13	INS
17315	Beachville	26 Vine St (MOE Trailer)	49	23.0	48.4	62.0	73.6	93.8	162.7	191	63.5	55.2	2	0
22904	Nanticoke	Walpole S Ps Sandusk Rd	46	16.0	24.5	32.5	44.0	81.0	100.1	101	39.8	34.0	0	0
22907	Nanticoke	Rainham Rd (Near Stelco Gate)	58	27.0	37.2	53.5	67.8	86.2	164.9	166	57.7	50.1	3	0
22964	Nanticoke	N 2 Km Nanticoke GS	53	13.2	26.0	33.0	52.2	70.2	111.3	129	39.9	33.3	1	0
26054	Elmira	Mill St.	18	32.4	38.3	43.0	64.2	77.2	90.8	93	INS	INS	0	INS
26056	Elmira	Church/Duke	19	29.8	41.0	49.0	59.6	79.6	96.7	99	INS	INS	0	INS
26062	Cambridge	Scott Rd./ Clemens Ave.	33	22.2	30.6	47.0	61.0	74.6	142.6	150	INS	INS	2	INS
26064	Cambridge	Sheffield St.	29	39.8	56.6	68.0	81.2	116.8	164.4	168	INS	INS	2	INS
27045	Welland	337 Alberta/Devon St	53	20.0	29.0	36.0	45.0	66.0	116.4	132	41.3	36.5	1	0
27052	Thorold	185 Queen St S	58	34.4	51.1	63.0	75.8	104.6	183.5	224	67.9	60.8	2	1
27057	St Catharines	27 Plymouth Av	56	30.0	46.0	57.5	74.5	101.0	187.9	211	65.9	57.5	5	0
27081	Thorold	Beaverdams/Collier St.	32	16.2	28.6	33.5	47.1	65.5	76.1	77	INS	INS	0	INS
27082	Niagara Falls	7401 Portage Rd.	9	20.2	26.0	40.0	61.4	119.8	227.1	239	INS	INS	1	INS
29000	Hamilton	Elgin/Kelly St	58	31.7	41.0	49.5	65.0	97.2	163.7	166	59.6	53.1	4	0
29009	Hamilton	Kenilworth	54	30.6	43.9	50.5	64.4	105.5	142.3	163	60.2	54.4	2	0
29011	Hamilton	Burlington/Leeds	58	46.4	59.1	78.0	103.8	161.2	202.0	210	90.6	81.3	13	1
29012	Hamilton	Burlington/Wellington	51	24.0	32.0	46.0	66.0	108.0	178.5	202	58.5	47.2	5	0
29025	Hamilton	Barton/Sanford	57	34.0	45.0	60.0	78.6	113.2	170.8	173	68.9	61.7	4	1
29102	Hamilton	467 Beach Blvd	58	38.7	57.0	71.0	88.8	153.8	245.1	293	85.4	73.1	11	1
29113	Hamilton	Gertrude/Depew	56	45.5	66.0	85.0	120.5	196.5	232.0	249	102.4	87.8	17	1
29114	Hamilton	Vickers Rd/East 18Th St	54	20.6	28.9	35.5	47.3	73.8	142.0	168	44.9	38.8	1	0

Table 15 Total Suspended Particulate (TSP) Statistics (1999)

Unit= micrograms/cubic metre

TSP 24-hour AAQC is 120 micrograms/m^3

TSP 1-year AAQC is 60 micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max.	Arith Mean	Geom Mean	# of Times Above Criteria 24h	1y
29118	Hamilton	Main St W/Hwy403	59	20.8	33	42	59	94	109.8	115	48.3	42.1	0	0
29122	Hamilton	Dundurn/York	56	17.5	25.5	37.5	44.0	64.0	80.9	82	38.5	33.7	0	0
29143	Hamilton	Keefer Court (MOE Air Shop)	59	43.6	61.4	81.0	112.2	148.8	256.6	296	92.0	79.5	15	1
31045	Toronto	Bruce Ps 51 Larchmount Av	109	25.8	35.0	46.0	59.6	87.2	144.0	159	52.3	46.0	3	0
31065	Toronto	633 Eastern Av	110	34.0	48.7	55.0	74.0	102.1	176.0	202	63.7	57.5	5	0
31082	Toronto	Works Dept , 138 Hamilton Av	115	33.8	47.0	62.0	78.0	104.0	130.2	132	65.3	58.7	3	0
44009	Burlington	3900 Mainway Blvd.	9	19.2	25.6	44.0	56.2	76.4	77.8	78	INS	INS	0	INS
46047	Mississauga	Mississauga Rd S/Port St	54	35.9	56.9	70.0	80.1	104.6	142.6	149	70.2	64.2	4	1
46117	Mississauga	Meadow Pk, Apple Lane Club	55	18.0	27.0	34.0	47.0	66.6	131.3	134	40.7	34.0	2	0
48003	Markham	2800 John St. (at Woodbine)	44	38.3	48.9	70.0	85.4	134.1	175.7	186	76.7	67.8	7	1
63046	Thunder Bay	Can-Car Montreal St	59	17.8	30.0	44.0	55.0	81.0	131.3	140	47.5	40.9	2	0
71042	Sault Ste Marie	Pumphouse, Bonney St	45	34.4	69.0	99.0	128.0	195.6	357.1	424	111.6	91.5	16	1
72114	Hearst	George/6th St.	51	16.0	22.0	60.0	104.0	237.0	371.0	419	89.0	54.6	11	0

Table 16 Lead (Pb) in TSP Statistics (1999)

Unit = micrograms/m^3

Pb 24-hour AAQC is 2.0 micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith Mean	Geom Mean	# of times Above Criterion 24 h
12007	Windsor	Wright/Water St	53	0.010	0.010	0.010	0.020	0.038	0.607	1.200	0.039	0.016	0
12008	Windsor	467 University Av W	43	0.010	0.010	0.010	0.020	0.020	0.036	0.040	0.014	0.013	0
12011	Windsor	Drouillard Rd/Richmond St	56	0.010	0.010	0.010	0.010	0.020	0.030	0.030	0.014	0.013	0
12013	Windsor	Filtrat Plt 3665 Wyandotte St E	53	0.010	0.010	0.020	0.020	0.040	0.055	0.060	0.019	0.017	0
12016	Windsor	College/South St	47	0.010	0.010	0.010	0.020	0.020	0.030	0.030	0.015	0.013	0
12038	Windsor	2885 Howard Av	54	0.010	0.010	0.010	0.020	0.040	0.060	0.060	0.019	0.015	0
12058	Windsor	Columbus Centre	58	0.010	0.010	0.010	0.010	0.020	0.039	0.050	0.013	0.012	0
12061	Amherstburg	1.4 km NW Allied Chem	57	0.010	0.010	0.010	0.010	0.020	0.034	0.040	0.013	0.012	0
14016	Courtright	Hwy40 (OPP Lambton GS)	52	0.010	0.010	0.010	0.010	0.020	0.035	0.040	0.012	0.011	0
14030	Corunna	Rr1 (W of House)	55	0.010	0.010	0.010	0.010	0.020	0.080	0.080	0.015	0.013	0
15025	London	900 Hightbury Ave.	52	0.010	0.010	0.010	0.010	0.020	0.025	0.030	0.012	0.011	0
26054	Elmira	Mill St.	18	0.010	0.010	0.020	0.020	0.030	0.047	0.050	INS	INS	0
26056	Elmira	Church/Duke	19	0.010	0.010	0.020	0.026	0.076	0.370	0.420	INS	INS	0
26062	Cambridge	Scott Rd./ Clemens Ave.	33	0.010	0.010	0.010	0.010	0.140	0.284	0.290	INS	INS	0
26064	Cambridge	Sheffield St.	29	0.010	0.010	0.010	0.042	0.182	0.259	0.270	INS	INS	0
27052	Thorold	185 Queen St S	58	0.010	0.010	0.010	0.010	0.020	0.030	0.030	0.012	0.011	0
27057	St Catharines	27 Plymouth Av	56	0.010	0.010	0.010	0.010	0.020	0.035	0.040	0.013	0.012	0
27081	Thorold	Beaverdams/Collier St.	32	0.010	0.010	0.010	0.010	0.010	0.020	0.020	INS	INS	0
27082	Niagara Falls	7401 Portage Rd.	9	0.010	0.010	0.010	0.010	0.012	0.019	0.020	INS	INS	0
29011	Hamilton	Burlington/Leeds	58	0.010	0.010	0.020	0.030	0.060	0.084	0.090	0.029	0.023	0
29025	Hamilton	Barton/Sanford	57	0.010	0.010	0.010	0.010	0.034	0.054	0.060	0.016	0.014	0
29102	Hamilton	467 Beach Blvd	58	0.010	0.010	0.015	0.029	0.060	0.093	0.110	0.024	0.018	0
29114	Hamilton	Vickers Rd/East 18Th St	54	0.010	0.010	0.010	0.010	0.010	0.019	0.030	0.010	0.010	0
31045	Toronto	Bruce Ps 51 Larchmount Av	109	0.010	0.010	0.010	0.020	0.030	0.049	0.050	0.017	0.015	0
31065	Toronto	633 Eastern Av	110	0.010	0.020	0.030	0.063	0.131	0.218	0.850	0.060	0.036	0
31082	Toronto	Works Dept , 138 Hamilton Av	115	0.010	0.010	0.020	0.020	0.030	0.070	0.070	0.019	0.016	0
44009	Burlington	3900 Mainway Blvd.	9	0.010	0.010	0.010	0.010	0.010	0.010	0.010	INS	INS	0
46047	Mississauga	Mississauga Rd S/Port St	54	0.293	0.458	0.685	1.700	4.170	6.429	6.800	1.544	0.894	15
46117	Mississauga	Meadow Pk, Apple Lane Club	55	0.010	0.010	0.010	0.010	0.010	0.025	0.030	0.011	0.011	0
71042	Sault Ste Marie	Pumphouse, Bonney St	45	0.010	0.010	0.010	0.010	0.036	0.373	0.580	0.029	0.014	0

Table 17 Iron (Fe) in TSP Statistics (1999)

Unit: micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith. Mean	Geom Mean
12007	Windsor	Wright/Water St	53	0.6	0.9	1.2	1.9	4.1	7.7	8.3	1.95	1.42
12008	Windsor	467 University Av W	43	0.6	0.8	0.9	1.5	1.7	2.2	2.3	1.09	0.93
12011	Windsor	Drouillard Rd/Richmond St	56	0.5	0.7	0.9	1.3	2.5	4.1	4.6	1.22	0.98
12013	Windsor	Filtrat Plt 3665 Wyandotte St E	53	0.3	0.8	1.3	2.6	4.7	6.1	6.2	2.01	1.34
12016	Windsor	College/South St	47	0.4	0.7	1.1	1.4	2.6	3.3	3.4	1.27	0.99
12038	Windsor	2885 Howard Av	54	1.0	1.7	2.7	6.1	10.7	14.5	15.0	4.57	3.10
12058	Windsor	Columbus Centre	58	0.3	0.6	0.7	1.0	1.6	2.7	2.7	0.88	0.73
12061	Amherstburg	1.4 km NW Allied Chem	57	0.6	0.9	1.2	1.8	2.4	3.3	3.7	1.44	1.22
14016	Courtright	Hwy40 (OPP Lambton GS)	52	0.1	0.2	0.3	0.5	0.6	1.2	1.3	0.37	0.29
14030	Corunna	Rr1 (W of House)	55	0.1	0.1	0.3	0.5	0.8	2.0	2.2	0.41	0.27
15025	London	900 Hightbury Ave.	52	0.1	0.2	0.4	0.6	1.0	1.7	2.0	0.51	0.37
26054	Elmira	Mill St.	18	0.2	0.3	0.5	0.9	1.9	3.1	3.1	INS	INS
26056	Elmira	Church/Duke	19	0.3	0.3	0.5	0.6	0.7	1.1	1.1	INS	INS
26062	Cambridge	Scott Rd../ Clemens Ave.	33	0.2	0.4	0.5	0.9	1.6	2.5	2.5	INS	INS
26064	Cambridge	Sheffield St.	29	0.6	0.8	1.3	1.9	3.2	4.4	4.4	INS	INS
27052	Thorold	185 Queen St S	58	0.4	0.5	0.7	0.8	1.3	3.0	4.0	0.82	0.68
27057	St Catharines	27 Plymouth Av	56	0.6	0.9	1.3	1.7	2.5	4.8	4.9	1.46	1.20
27081	Thorold	Beaverdams/Collier St.	32	0.2	0.2	0.4	0.5	0.7	1.0	1.1	INS	INS
27082	Niagara Falls	7401 Portage Rd.	9	0.2	0.3	0.4	0.8	1.5	2.8	3.0	INS	INS
29011	Hamilton	Burlington/Leeds	58	1.5	2.3	3.9	5.0	9.6	12.0	12.0	4.29	3.43
29025	Hamilton	Barton/Sanford	57	0.7	1.0	1.4	2.1	6.3	10.4	11.0	2.37	1.63
29102	Hamilton	467 Beach Blvd	58	0.8	1.5	2.4	3.8	6.6	11.9	13.0	3.14	2.21
29114	Hamilton	Vickers Rd/East 18Th St	54	0.2	0.3	0.5	0.6	2.0	4.3	4.7	0.76	0.46
44009	Burlington	3900 Mainway Blvd.	9	0.3	0.5	0.7	1.3	1.9	2.3	2.3	INS	INS
46117	Mississauga	Meadow Pk, Apple Lane Club	30	0.1	0.2	0.2	0.4	0.6	1.5	1.8	INS	INS
71042	Sault Ste Marie	Pumphouse, Bonney St	45	1.4	2.6	5.9	9.7	20.8	39.3	49.0	8.74	5.36

Table 18 Manganese (Mn) in TSP Statistics (1999)

Unit = micrograms/m^3

Mn 24-hour AAQC is 2.5 micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith Mean	Geom Mean	# of times Above Criterion 24 h
12007	Windsor	Wright/Water St	53	0.012	0.026	0.038	0.060	0.100	0.154	0.170	0.050	0.038	0
12008	Windsor	467 University Av W	43	0.015	0.023	0.032	0.040	0.059	0.066	0.069	0.033	0.028	0
12011	Windsor	Drouillard Rd/Richmond St	56	0.016	0.021	0.032	0.050	0.130	0.284	0.300	0.054	0.035	0
12013	Windsor	Filtrat Plt 3665 Wyandotte St E	53	0.010	0.034	0.050	0.148	0.288	0.344	0.360	0.107	0.060	0
12016	Windsor	College/South St	47	0.011	0.020	0.034	0.046	0.085	0.105	0.110	0.040	0.031	0
12038	Windsor	2885 Howard Av	54	0.023	0.032	0.051	0.090	0.150	0.199	0.220	0.070	0.054	0
12058	Windsor	Columbus Centre	58	0.011	0.016	0.020	0.026	0.046	0.074	0.088	0.025	0.020	0
12061	Amherstburg	1.4 km NW Allied Chem	57	0.018	0.026	0.032	0.043	0.068	0.087	0.090	0.037	0.032	0
14016	Courtright	Hwy40 (OPP Lambton GS)	52	0.001	0.003	0.007	0.011	0.017	0.027	0.028	0.008	0.006	0
14030	Corunna	Rr1 (W of House)	55	0.001	0.003	0.008	0.018	0.026	0.074	0.085	0.013	0.007	0
15025	London	900 Hightbury Ave.	52	0.006	0.011	0.015	0.023	0.042	0.053	0.058	0.019	0.015	0
26054	Elmira	Mill St.	18	0.011	0.013	0.016	0.033	0.055	0.075	0.076	INS	INS	0
26056	Elmira	Church/Duke	19	0.011	0.015	0.022	0.028	0.060	0.080	0.082	INS	INS	0
26062	Cambridge	Scott Rd./ Clemens Ave.	33	0.010	0.015	0.023	0.035	0.073	0.114	0.120	INS	INS	0
26064	Cambridge	Sheffield St.	29	0.021	0.027	0.036	0.058	0.094	0.149	0.160	INS	INS	0
27052	Thorold	185 Queen St S	58	0.016	0.023	0.028	0.040	0.055	0.117	0.160	0.035	0.029	0
27057	St Catharines	27 Plymouth Av	56	0.035	0.065	0.089	0.120	0.190	0.321	0.370	0.103	0.082	0
27081	Thorold	Beaverdams/Collier St.	32	0.006	0.012	0.018	0.024	0.034	0.050	0.051	INS	INS	0
27082	Niagara Falls	7401 Portage Rd.	9	0.012	0.014	0.017	0.036	0.063	0.096	0.100	INS	INS	0
29011	Hamilton	Burlington/Leeds	58	0.099	0.170	0.235	0.340	0.596	1.472	1.700	0.317	0.243	0
29025	Hamilton	Barton/Sanford	57	0.053	0.081	0.100	0.184	0.476	0.744	0.750	0.188	0.128	0
29102	Hamilton	467 Beach Blvd	58	0.044	0.084	0.155	0.190	0.383	0.766	1.000	0.184	0.128	0
29114	Hamilton	Vickers Rd/East 18Th St	54	0.008	0.013	0.021	0.032	0.107	0.219	0.230	0.040	0.024	0
46117	Mississauga	Meadow Pk, Apple Lane Club	30	0.006	0.009	0.013	0.015	0.022	0.064	0.076	INS	INS	0
71042	Sault Ste Marie	Pumphouse, Bonney St	45	0.124	0.242	0.300	0.426	0.716	1.025	1.100	0.372	0.290	0

Table 19 Nickel (Ni) in TSP Statistics (1999)

Unit = micrograms/m^3

Ni 24-hour AAQC is 2.0 micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith Mean	Geom Mean	# of times Above Criterion 24 h
12007	Windsor	Wright/Water St	53	0.001	0.001	0.001	0.001	0.005	0.010	0.010	0.002	0.001	0
12008	Windsor	467 University Av W	43	0.001	0.001	0.001	0.002	0.005	0.013	0.013	0.002	0.002	0
12011	Windsor	Drouillard Rd/Richmond St	56	0.001	0.001	0.001	0.001	0.007	0.014	0.016	0.003	0.002	0
12013	Windsor	Filtrat Plt 3665 Wyandotte St E	53	0.001	0.001	0.001	0.001	0.006	0.018	0.019	0.002	0.001	0
12016	Windsor	College/South St	47	0.001	0.001	0.001	0.001	0.006	0.010	0.010	0.002	0.001	0
12038	Windsor	2885 Howard Av	54	0.001	0.001	0.002	0.006	0.011	0.017	0.018	0.004	0.003	0
12058	Windsor	Columbus Centre	58	0.001	0.001	0.001	0.001	0.003	0.006	0.009	0.002	0.001	0
12061	Amherstburg	1.4 km NW Allied Chem	57	0.001	0.001	0.001	0.001	0.004	0.017	0.019	0.002	0.002	0
14016	Courtright	Hwy40 (OPP Lambton GS)	52	0.001	0.001	0.001	0.002	0.009	0.069	0.100	0.005	0.002	0
14030	Corunna	Rr1 (W of House)	55	0.001	0.001	0.001	0.001	0.004	0.007	0.007	0.002	0.001	0
15025	London	900 Hightbury Ave.	52	0.001	0.001	0.001	0.001	0.005	0.006	0.007	0.002	0.001	0
26054	Elmira	Mill St.	18	0.001	0.001	0.001	0.003	0.004	0.008	0.009	INS	INS	0
26056	Elmira	Church/Duke	19	0.001	0.001	0.001	0.001	0.002	0.004	0.004	INS	INS	0
26062	Cambridge	Scott Rd./ Clemens Ave.	33	0.001	0.001	0.001	0.001	0.001	0.018	0.025	INS	INS	0
26064	Cambridge	Sheffield St.	29	0.001	0.001	0.001	0.005	0.013	0.046	0.057	INS	INS	0
27052	Thorold	185 Queen St S	58	0.001	0.001	0.001	0.001	0.005	0.032	0.043	0.003	0.002	0
27057	St Catharines	27 Plymouth Av	56	0.001	0.001	0.001	0.001	0.004	0.011	0.012	0.002	0.001	0
27081	Thorold	Beaverdams/Collier St.	32	0.001	0.001	0.001	0.001	0.001	0.003	0.004	INS	INS	0
27082	Niagara Falls	7401 Portage Rd.	9	0.001	0.001	0.001	0.002	0.008	0.017	0.018	INS	INS	0
29011	Hamilton	Burlington/Leeds	58	0.001	0.001	0.001	0.005	0.008	0.018	0.019	0.004	0.002	0
29025	Hamilton	Barton/Sanford	57	0.001	0.001	0.001	0.002	0.006	0.017	0.018	0.003	0.002	0
29102	Hamilton	467 Beach Blvd	58	0.001	0.001	0.001	0.002	0.007	0.013	0.017	0.003	0.002	0
29114	Hamilton	Vickers Rd/East 18Th St	54	0.001	0.001	0.001	0.001	0.002	0.004	0.005	0.001	0.001	0
46117	Mississauga	Meadow Pk, Apple Lane Club	30	0.001	0.001	0.001	0.003	0.005	0.006	0.006	INS	INS	0
71042	Sault Ste Marie	Pumphouse, Bonney St	45	0.001	0.001	0.001	0.001	0.005	0.015	0.018	0.002	0.001	0

Table 20 Chromium (Cr) in TSP Statistics (1999)

Units = micrograms/m^3

Cr 24-hour AAQC is 1.5 micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith. Mean	Geom Mean	Above Criterion 24 h
12007	Windsor	Wright/Water St	53	0.001	0.003	0.006	0.008	0.018	0.024	0.025	0.007	0.005	0
12008	Windsor	467 University Av W	43	0.001	0.003	0.006	0.008	0.010	0.013	0.014	0.006	0.004	0
12011	Windsor	Drouillard Rd/Richmond St	56	0.001	0.001	0.003	0.006	0.012	0.028	0.030	0.005	0.003	0
12013	Windsor	Filtrat Plt 3665 Wyandotte St E	53	0.001	0.005	0.007	0.013	0.027	0.034	0.034	0.011	0.007	0
12016	Windsor	College/South St	47	0.001	0.003	0.005	0.008	0.011	0.020	0.022	0.006	0.004	0
12038	Windsor	2885 Howard Av	54	0.006	0.010	0.014	0.029	0.051	0.071	0.077	0.023	0.016	0
12058	Windsor	Columbus Centre	58	0.001	0.001	0.003	0.005	0.008	0.013	0.014	0.004	0.003	0
12061	Amherstburg	1.4 km NW Allied Chem	57	0.001	0.003	0.006	0.010	0.013	0.020	0.023	0.007	0.005	0
14016	Courtright	Hwy40 (OPP Lambton GS)	52	0.001	0.001	0.001	0.002	0.007	0.009	0.010	0.002	0.002	0
14030	Corunna	Rr1 (W of House)	55	0.001	0.001	0.001	0.003	0.008	0.020	0.023	0.003	0.002	0
15025	London	900 Hightbury Ave.	52	0.001	0.001	0.001	0.004	0.006	0.007	0.008	0.003	0.002	0
26054	Elmira	Mill St.	18	0.001	0.003	0.004	0.006	0.010	0.015	0.016	INS	INS	0
26056	Elmira	Church/Duke	19	0.001	0.002	0.004	0.005	0.007	0.011	0.012	INS	INS	0
26062	Cambridge	Scott Rd../ Clemens Ave.	33	0.001	0.001	0.001	0.003	0.006	0.041	0.056	INS	INS	0
26064	Cambridge	Sheffield St.	29	0.003	0.008	0.011	0.015	0.027	0.197	0.200	INS	INS	0
27052	Thorold	185 Queen St S	57	0.007	0.017	0.026	0.042	0.164	0.843	1.000	0.078	0.029	0
27057	St Catharines	27 Plymouth Av	56	0.002	0.005	0.008	0.012	0.017	0.029	0.037	0.009	0.006	0
27081	Thorold	Beaverdams/Collier St.	32	0.001	0.003	0.005	0.008	0.012	0.016	0.017	INS	INS	0
27082	Niagara Falls	7401 Portage Rd.	9	0.008	0.034	0.069	0.224	0.340	0.412	0.420	INS	INS	0
29011	Hamilton	Burlington/Leeds	58	0.013	0.024	0.035	0.047	0.071	0.236	0.390	0.045	0.033	0
29025	Hamilton	Barton/Sanford	57	0.005	0.009	0.014	0.024	0.065	0.154	0.210	0.028	0.015	0
29102	Hamilton	467 Beach Blvd	58	0.003	0.009	0.017	0.022	0.043	0.077	0.095	0.020	0.013	0
29114	Hamilton	Vickers Rd/East 18Th St	54	0.001	0.001	0.002	0.006	0.016	0.034	0.034	0.006	0.003	0
46117	Mississauga	Meadow Pk, Apple Lane Club	30	0.001	0.001	0.002	0.004	0.007	0.009	0.010	INS	INS	0
71042	Sault Ste Marie	Pumphouse, Bonney St	45	0.005	0.011	0.020	0.037	0.066	0.120	0.150	0.030	0.019	0

Table 21 Vanadium (V) in TSP Statistics (1999)

Unit = micrograms/m^3

V 24-hour AAQC is 2.0 micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith Mean	Geom Mean	# of times above Criterion 24 h
12007	Windsor	Wright/Water St	53	0.001	0.001	0.002	0.006	0.015	0.028	0.030	0.005	0.003	0
12008	Windsor	467 University Av W	43	0.001	0.001	0.001	0.004	0.012	0.024	0.028	0.005	0.002	0
12011	Windsor	Drouillard Rd/Richmond St	56	0.001	0.001	0.001	0.004	0.012	0.029	0.038	0.005	0.002	0
12013	Windsor	Filtrat Plt 3665 Wyandotte St E	53	0.001	0.001	0.004	0.008	0.016	0.027	0.033	0.006	0.003	0
12016	Windsor	College/South St	47	0.001	0.001	0.004	0.007	0.011	0.019	0.023	0.005	0.003	0
12038	Windsor	2885 Howard Av	54	0.001	0.002	0.006	0.011	0.026	0.043	0.051	0.010	0.005	0
12058	Windsor	Columbus Centre	58	0.001	0.001	0.001	0.006	0.011	0.022	0.024	0.004	0.003	0
12061	Amherstburg	1.4 km NW Allied Chem	57	0.001	0.001	0.001	0.005	0.012	0.023	0.034	0.005	0.003	0
14016	Courtright	Hwy40 (OPP Lambton GS)	52	0.001	0.001	0.002	0.009	0.016	0.162	0.250	0.012	0.003	0
14030	Corunna	Rr1 (W of House)	55	0.001	0.001	0.001	0.003	0.008	0.016	0.019	0.003	0.002	0
15025	London	900 Hightbury Ave.	52	0.001	0.001	0.001	0.001	0.002	0.006	0.006	0.001	0.001	0
26054	Elmira	Mill St.	18	0.001	0.001	0.001	0.002	0.008	0.011	0.012	INS	INS	0
26056	Elmira	Church/Duke	19	0.001	0.001	0.001	0.001	0.004	0.006	0.006	INS	INS	0
26062	Cambridge	Scott Rd../ Clemens Ave.	33	0.001	0.001	0.001	0.001	0.001	0.005	0.005	INS	INS	0
26064	Cambridge	Sheffield St.	29	0.001	0.001	0.002	0.004	0.010	0.013	0.014	INS	INS	0
27052	Thorold	185 Queen St S	58	0.001	0.003	0.006	0.009	0.018	0.059	0.062	0.010	0.005	0
27057	St Catharines	27 Plymouth Av	56	0.001	0.001	0.002	0.007	0.011	0.022	0.023	0.005	0.003	0
27081	Thorold	Beaverdams/Collier St.	32	0.001	0.001	0.001	0.001	0.002	0.007	0.007	INS	INS	0
27082	Niagara Falls	7401 Portage Rd.	9	0.001	0.001	0.004	0.008	0.019	0.042	0.045	INS	INS	0
29011	Hamilton	Burlington/Leeds	58	0.001	0.007	0.011	0.021	0.039	0.049	0.054	0.015	0.009	0
29025	Hamilton	Barton/Sanford	56	0.001	0.001	0.003	0.007	0.017	0.034	0.036	0.007	0.003	0
29102	Hamilton	467 Beach Blvd	58	0.001	0.001	0.006	0.010	0.024	0.046	0.047	0.010	0.005	0
29114	Hamilton	Vickers Rd/East 18Th St	54	0.001	0.001	0.001	0.001	0.005	0.012	0.014	0.002	0.002	0
46117	Mississauga	Meadow Pk, Apple Lane Club	30	0.001	0.001	0.001	0.004	0.007	0.009	0.010	INS	INS	0
71042	Sault Ste Marie	Pumphouse, Bonney St	45	0.001	0.005	0.009	0.026	0.037	0.086	0.110	0.018	0.009	0

Table 22 Copper (Cu) in TSP Statistics (1999)

Unit = micrograms/m^3

Cu 24-hour AAQC is 50 micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith Mean	Geom Mean	# of times Above Criterion 24 h
12007	Windsor	Wright/Water St	53	0.00	0.01	0.02	0.04	0.05	0.54	1.00	0.05	0.02	0
12008	Windsor	467 University Av W	43	0.00	0.01	0.01	0.02	0.03	0.04	0.04	0.01	0.01	0
12011	Windsor	Drouillard Rd/Richmond St	56	0.00	0.00	0.01	0.01	0.02	0.05	0.08	0.01	0.00	0
12013	Windsor	Filtrat Plt 3665 Wyandotte St E	53	0.00	0.01	0.02	0.03	0.10	0.14	0.15	0.03	0.02	0
12016	Windsor	College/South St	47	0.00	0.01	0.01	0.02	0.04	0.11	0.14	0.02	0.01	0
12038	Windsor	2885 Howard Av	54	0.01	0.02	0.03	0.05	0.07	0.09	0.09	0.03	0.03	0
12058	Windsor	Columbus Centre	58	0.00	0.02	0.03	0.04	0.05	0.07	0.08	0.03	0.02	0
12061	Amherstburg	1.4 km NW Allied Chem	57	0.00	0.00	0.01	0.01	0.02	0.04	0.04	0.01	0.00	0
14016	Courtright	Hwy40 (OPP Lambton GS)	52	0.01	0.03	0.05	0.07	0.16	0.30	0.33	0.07	0.04	0
14030	Corunna	Rr1 (W of House)	55	0.00	0.01	0.02	0.03	0.09	0.14	0.15	0.03	0.01	0
15025	London	900 Hightbury Ave.	52	0.26	0.52	0.75	0.92	1.00	1.75	1.80	0.71	0.58	0
26054	Elmira	Mill St.	18	0.02	0.03	0.05	0.06	0.07	0.09	0.09	INS	INS	0
26056	Elmira	Church/Duke	20	0.02	0.04	0.04	0.04	0.05	0.07	0.07	INS	INS	0
26062	Cambridge	Scott Rd./ Clemens Ave.	35	0.02	0.07	0.09	0.11	0.13	0.20	0.20	INS	INS	0
26064	Cambridge	Sheffield St.	31	0.06	0.07	0.09	0.13	0.17	0.21	0.22	INS	INS	0
27052	Thorold	185 Queen St S	58	0.05	0.11	0.14	0.17	0.23	0.27	0.28	0.14	0.11	0
27057	St Catharines	27 Plymouth Av	56	0.06	0.10	0.13	0.18	0.23	0.25	0.25	0.14	0.13	0
27081	Thorold	Beaverdams/Collier St.	32	0.00	0.05	0.09	0.12	0.14	0.22	0.25	INS	INS	0
27082	Niagara Falls	7401 Portage Rd.	9	0.02	0.05	0.06	0.10	0.17	0.22	0.23	INS	INS	0
29011	Hamilton	Burlington/Leeds	58	0.01	0.04	0.06	0.08	0.10	0.15	0.16	0.06	0.04	0
29025	Hamilton	Barton/Sanford	57	0.03	0.06	0.09	0.12	0.15	0.22	0.25	0.09	0.08	0
29102	Hamilton	467 Beach Blvd	58	0.03	0.07	0.09	0.10	0.12	0.14	0.16	0.08	0.07	0
29114	Hamilton	Vickers Rd/East 18Th St	54	0.00	0.02	0.02	0.03	0.04	0.05	0.06	0.02	0.02	0
46117	Mississauga	Meadow Pk, Apple Lane Club	30	0.18	0.21	0.24	0.26	0.35	0.44	0.45	INS	INS	0
71042	Sault Ste Marie	Pumphouse, Bonney St	45	0.02	0.04	0.08	0.10	0.14	0.29	0.37	0.08	0.06	0

Table 23 Nitrate (NO_3^-) in TSP Statistics (1999)

Unit = micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith Mean	Geom Mean
12007	Windsor	Wright/Water St	53	2.1	3.2	4.6	5.9	8.0	11.4	13.6	4.8	4.2
12008	Windsor	467 University Av W	43	2.1	3.3	5.0	6.4	8.3	12.6	13.7	5.2	4.5
12016	Windsor	College/South St	47	1.6	2.3	3.9	5.3	8.6	13.7	16.6	4.5	3.7
12038	Windsor	2885 Howard Av	54	1.4	2.6	4.1	5.7	8.3	11.6	12.2	4.6	3.8
12058	Windsor	Columbus Centre	58	1.8	2.5	4.0	5.1	7.2	9.9	11.2	4.2	3.6
14016	Courtright	Hwy40 (OPP Lambton GS)	52	1.2	2.4	4.5	6.0	8.6	11.0	11.7	4.6	3.7
22904	Nanticoke	Walpole S Ps Sandusk Rd	46	1.7	3.1	4.0	5.8	8.4	13.4	15.5	4.8	4.0
29011	Hamilton	Burlington/Leeds	58	1.3	2.5	3.3	4.8	6.9	10.6	12.1	3.8	3.2
29025	Hamilton	Barton/Sanford	57	1.4	2.8	4.3	6.2	7.4	12.3	14.3	4.5	3.8
29102	Hamilton	467 Beach Blvd	58	1.7	2.9	4.7	6.0	7.9	11.0	11.2	4.8	4.1
29114	Hamilton	Vickers Rd/East 18Th St	54	1.8	2.5	4.1	5.7	7.5	12.1	14.5	4.5	3.7

Table 24 Sulphate (SO_4^{2-}) in TSP Statistics (1999)

Unit =micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith Mean	Geom Mean
12007	Windsor	Wright/Water St	53	10.5	14.0	16.2	17.5	20.9	26.0	27.6	15.9	15.4
12008	Windsor	467 University Av W	43	8.1	12.5	14.9	17.3	21.0	26.5	27.3	15.1	14.2
12016	Windsor	College/South St	47	9.4	11.3	14.4	17.2	23.2	25.3	25.3	15.0	14.0
12038	Windsor	2885 Howard Av	54	7.6	11.8	14.3	16.5	20.0	25.1	26.7	13.9	12.8
12058	Windsor	Columbus Centre	58	7.2	11.9	13.4	15.4	17.9	24.9	25.5	13.5	12.8
14016	Courtright	Hwy40 (OPP Lambton GS)	52	9.2	12.8	14.9	17.5	20.8	26.4	30.0	15.2	14.3
22904	Nanticoke	Walpole S Ps Sandusk Rd	46	7.3	12.7	15.5	17.2	21.9	31.9	35.0	15.0	13.7
29011	Hamilton	Burlington/Leeds	58	11.1	12.8	14.4	18.2	21.5	29.0	29.2	15.6	14.9
29025	Hamilton	Barton/Sanford	57	9.3	11.3	14.2	17.5	20.8	27.6	27.6	15.0	14.1
29102	Hamilton	467 Beach Blvd	58	9.1	13.8	17.7	19.5	24.1	32.9	34.3	17.2	16.1
29114	Hamilton	Vickers Rd/East 18Th St	54	8.4	11.0	13.6	16.4	19.1	26.4	26.7	14.0	13.2

Table 25 Inhalable Particles (PM_{10}) 24-Hour Statistics (1999)

Unit =micrograms/m^3

24h PM_{10} Interim AAQC is 50 ug/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max.	Arith Mean	Geom Mean	% of days >50
12507	Windsor	PM10 Wright/Water St	57	10.6	14.0	20.0	28.0	43.4	51.4	52	24.2	20.9	7.0
12508	Windsor	PM10 467 University Ave W	41	15.0	21.0	28.0	38.0	50.0	58.8	62	30.0	27.1	9.8
12513	Windsor	PM10 3665 Wyndotte St E	51	12.0	16.0	24.0	38.0	55.0	67.5	71	29.2	24.3	13.7
12556	Windosr	PM101400 Roselawn Dr.	54	10.0	14.0	17.0	22.0	38.4	104.8	144	22.8	18.6	5.6
12559	Windsor	PM10 5305 Adstol Ave.	46	7.0	10.0	17.0	22.5	42.5	51.8	54	19.4	15.7	2.2
12583	Windsor	PM10 13765 St. Gregory's Rd.	52	6.0	13.0	18.5	25.0	38.9	72.3	85	21.5	17.2	5.8
14550	Sarnia	PM10 6th Line, Moore TWP	49	6.0	8.0	13.0	16.6	27.0	40.7	45	14.4	11.6	0.0
14564	Sarnia	PM10 Centenial Park/ Front St.	51	6.0	10.0	16.0	27.0	42.0	77.0	92	22.7	16.7	7.8
15525	London	PM10 900 Highbury Ave. E.	56	7.0	11.5	17.0	25.5	47.5	64.8	67	22.2	17.6	8.9
17550	Beachville	PM10 Earl Lantz Property	49	10.0	15.0	25.0	34.6	72.0	182.0	218	35.2	25.2	14.3
22304	Nanticoke	PM10 Walpole Ps Sandusk Rd	59	5.0	8.4	12.0	20.6	34.0	49.8	55	16.8	12.5	1.7
26365	Elmira	PM10 Mill St.	9	8.8	9.8	14.0	21.4	29.0	29.0	29	INS	INS	0.0
27308	St Catharines	PM10 71 King Street	58	8.7	16.1	22.0	29.0	42.6	53.9	55	24.0	20.5	6.9
27352	Thorold	PM10 185 Queen St S	56	13.0	17.5	24.0	30.0	48.0	100.1	132	28.7	24.2	8.9
29300	Hamilton	PM10 Elgin/Kelly St	57	9.6	15.8	23.0	28.2	45.4	69.9	71	25.5	21.4	8.8
29302	Hamilton	PM10 467 Beach Blvd	53	11.0	18.0	26.0	34.6	55.8	104.4	134	30.8	24.7	13.2
29313	Hamilton	PM10 Gertrude/Depew	54	21.3	29.0	36.5	48.4	79.3	95.2	101	43.1	37.7	29.6
29324	Hamilton	PM10 Buchanan Park Ps	50	7.9	11.0	18.0	30.3	41.3	59.6	63	21.8	17.3	4.0
31127	Toronto	PM10 Bay/Wellesley	11	5.0	8.0	10.0	13.0	13.0	13.9	14	INS	INS	0.0
35127	Etobicoke	PM10 Evans/Arnold	68	13.0	20.0	28.0	33.8	42.0	53.0	53	27.2	24.2	4.4
44127	Oakville	PM10 Bronte Rd/Woburn Cr	57	8.0	13.8	16.0	25.0	40.8	46.4	47	20.6	17.0	0.0
46127	Mississauga	PM10 Meadwood Park	57	8.0	11.8	16.0	26.2	41.0	50.8	57	20.8	16.8	1.8
62135	Fort Frances	PM10 Legion 250 Church	54	6.3	12.0	16.0	23.0	29.0	55.8	60	18.2	15.3	3.7
63201	Thunder Bay	PM10 615 James St S	59	6.8	12.0	15.0	23.0	31.0	46.4	47	18.1	15.0	0.0
71342	Sault Ste Marie	PM10 Bonney St	49	11.6	24.4	42.0	63.6	94.6	209.8	217	52.3	37.4	40.8
71368	Sault Ste Marie	PM10 Wm Merrifield S	49	8.0	12.0	17.0	27.2	43.6	103.7	133	23.5	18.2	8.2
77570	Copper Cliff	PM10 Market St	51	7.0	9.0	14.0	21.0	34.0	53.5	56	17.9	14.5	3.9

Table 26 Copper (Cu) in PM_{10} Statistics (1999)

Unit = micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES						Max	Arith Mean	Geom Mean
				10	30	50	70	90	99			
12507	Windsor	PM10 Wright/Water St	57	0.005	0.005	0.005	0.006	0.022	0.427	0.900	0.025	0.008
12508	Windsor	PM10 467 University Ave W	41	0.005	0.005	0.010	0.020	0.030	0.038	0.040	0.014	0.011
12513	Windsor	PM10 3665 Wyndotte St E	51	0.005	0.005	0.005	0.010	0.015	0.028	0.035	0.008	0.007
12556	Windosr	PM10 1400 Roselawn Dr.	54	0.005	0.005	0.005	0.005	0.009	0.022	0.025	0.006	0.006
12559	Windsor	PM10 5305 Adstol Ave.	46	0.005	0.005	0.005	0.005	0.005	0.010	0.010	0.005	0.005
12583	Windsor	PM10 13765 St. Gregory's Rd.	52	0.005	0.005	0.005	0.005	0.010	0.022	0.025	0.006	0.006
14550	Sarnia	PM10 6th Line, Moore TWP	50	0.005	0.005	0.005	0.005	0.005	0.008	0.010	0.005	0.005
14564	Sarnia	PM10 Centenial Park/ Front St.	51	0.005	0.005	0.005	0.005	0.010	0.033	0.035	0.007	0.006
15525	London	PM10 900 Highbury Ave. E.	56	0.005	0.005	0.005	0.005	0.010	0.045	0.050	0.008	0.007
17550	Embro	PM10 Earl Lantz Property	50	0.005	0.005	0.005	0.005	0.015	0.035	0.035	0.008	0.007
22304	Nanticoke	PM10 Walpole Ps Sandusk Rd	59	0.005	0.005	0.005	0.005	0.005	0.010	0.010	0.005	0.005
26365	Elmira	PM10 Mill St.	9	0.220	0.248	0.280	0.316	0.322	0.329	0.330	INS	INS
27308	St Catharines	PM10 71 King Street	58	0.005	0.005	0.010	0.010	0.015	0.022	0.025	0.009	0.008
27352	Thorold	PM10 185 Queen St S	56	0.005	0.005	0.008	0.015	0.020	0.030	0.030	0.011	0.009
29300	Hamilton	PM10 Elgin/Kelly St	59	0.005	0.015	0.020	0.030	0.051	0.077	0.080	0.026	0.020
29302	Hamilton	PM10 467 Beach Blvd	53	0.005	0.008	0.010	0.020	0.030	0.040	0.040	0.015	0.012
29313	Hamilton	PM10 Gertrude/Depew	54	0.005	0.010	0.025	0.036	0.089	0.159	0.180	0.036	0.020
29324	Hamilton	PM10 Buchanan Park Ps	50	0.005	0.005	0.010	0.012	0.025	0.048	0.050	0.012	0.009
31127	Toronto	PM10 Bay/Wellesley	11	0.005	0.005	0.005	0.005	0.005	0.010	0.010	INS	INS
35127	Etobicoke	PM10 Evans/Arnold	68	0.005	0.005	0.010	0.015	0.025	0.058	0.075	0.013	0.010
44127	Oakville	PM10 Bronte Rd/Woburn Cr	57	0.005	0.005	0.005	0.010	0.015	0.022	0.030	0.008	0.007
46127	Mississauga	PM10 Meadwood Park	57	0.005	0.015	0.020	0.025	0.040	0.060	0.060	0.023	0.019
62135	Fort Frances	PM10 Legion 250 Church	54	0.005	0.005	0.005	0.005	0.005	0.012	0.015	0.005	0.005
63201	Thunder Bay	PM10 615 James St S	60	0.005	0.005	0.005	0.005	0.006	0.017	0.020	0.006	0.006
71342	Sault Ste Marie	PM10 Bonney St	49	0.005	0.005	0.005	0.005	0.010	0.018	0.020	0.006	0.006
71368	Sault Ste Marie	PM10 Wm Merrifield S	49	0.005	0.005	0.005	0.005	0.011	0.041	0.060	0.008	0.007
77570	Copper Cliff	PM10 Market St	51	0.010	0.035	0.075	0.150	0.420	1.450	1.800	0.172	0.068

Table 27 Iron (Fe) in PM_{10} Statistics (1999)

Unit: micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith. Mean	Geom Mean
12507	Windsor	PM10 Wright/Water St	57	0.22	0.32	0.48	0.85	2.00	3.01	3.40	0.81	0.57
12508	Windsor	PM10 467 University Ave W	41	0.22	0.42	0.52	0.80	1.10	1.70	1.90	0.63	0.51
12513	Windsor	PM10 3665 Wyndotte St E	51	0.16	0.40	0.70	1.60	2.30	3.45	4.00	1.05	0.67
12556	Windosr	PM10 1400 Roselawn Dr.	54	0.15	0.22	0.27	0.40	0.68	1.74	1.90	0.38	0.30
12559	Windsor	PM10 5305 Adstol Ave.	46	0.08	0.17	0.29	0.41	0.68	0.95	0.96	0.33	0.25
12583	Windsor	PM10 13765 St. Gregory's Rd.	52	0.06	0.15	0.25	0.40	0.67	2.49	3.10	0.38	0.23
14550	Sarnia	PM10 6th Line, Moore TWP	50	0.04	0.07	0.10	0.17	0.28	0.65	0.66	0.15	0.11
14564	Sarnia	PM10 Centenial Park/ Front St.	51	0.06	0.10	0.20	0.32	0.52	1.02	1.10	0.26	0.18
15525	London	PM10 900 Highbury Ave. E.	56	0.06	0.13	0.28	0.38	0.54	1.14	1.30	0.31	0.21
17550	Embro	PM10 Earl Lantz Property	50	0.06	0.12	0.18	0.27	0.46	0.75	0.78	0.22	0.16
22304	Nanticoke	PM10 Walpole Ps Sandusk Rd	59	0.02	0.06	0.14	0.20	0.40	1.23	1.40	0.22	0.12
26365	Elmira	PM10 Mill St.	9	0.14	0.20	0.28	0.54	0.92	1.62	1.70	INS	INS
27308	St Catharines	PM10 71 King Street	58	0.08	0.18	0.27	0.34	0.59	1.03	1.10	0.31	0.23
27352	Thorold	PM10 185 Queen St S	56	0.18	0.27	0.33	0.50	0.93	1.97	2.90	0.46	0.34
29300	Hamilton	PM10 Elgin/Kelly St	59	0.20	0.33	0.52	0.83	2.82	5.13	6.00	1.00	0.59
29302	Hamilton	PM10 467 Beach Blvd	53	0.24	0.60	1.10	1.88	2.90	5.17	5.90	1.44	0.91
29313	Hamilton	PM10 Gertrude/Depew	54	0.55	1.29	2.25	3.91	8.56	12.47	13.00	3.43	2.20
29324	Hamilton	PM10 Buchanan Park Ps	50	0.08	0.14	0.28	0.55	1.82	4.08	5.50	0.63	0.30
31127	Toronto	PM10 Bay/Wellesley	11	0.12	0.14	0.18	0.24	0.30	0.32	0.32	INS	INS
35127	Etobicoke	PM10 Evans/Arnold	68	0.22	0.38	0.56	0.80	1.20	2.46	4.20	0.69	0.54
44127	Oakville	PM10 Bronte Rd/Woburn Cr	56	0.16	0.25	0.38	0.58	1.05	1.55	1.60	0.50	0.37
46127	Mississauga	PM10 Meadwood Park	57	0.06	0.14	0.20	0.32	0.56	1.00	1.10	0.27	0.19
62135	Fort Frances	PM10 Legion 250 Church	54	0.08	0.18	0.28	0.40	0.63	1.48	1.80	0.35	0.24
63201	Thunder Bay	PM10 615 James St S	60	0.14	0.26	0.37	0.70	1.42	2.98	3.10	0.65	0.42
71342	Sault Ste Marie	PM10 Bonney St	49	0.56	1.28	2.80	8.28	14.20	32.36	41.00	6.10	2.77
71368	Sault Ste Marie	PM10 Wm Merrifield S	49	0.12	0.33	0.46	0.95	2.02	6.88	8.90	0.95	0.48
77570	Copper Cliff	PM10 Market St	51	0.10	0.20	0.30	0.46	1.00	3.05	3.10	0.51	0.31

Table 28 Manganese (Mn) in PM_{10} Statistics (1999)

Unit = micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith Mean	Geom Mean
12507	Windsor	PM10 Wright/Water St	57	0.007	0.012	0.016	0.025	0.043	0.068	0.076	0.022	0.017
12508	Windsor	PM10 467 University Ave W	41	0.008	0.012	0.018	0.026	0.038	0.047	0.052	0.021	0.017
12513	Windsor	PM10 3665 Wyndotte St E	51	0.006	0.018	0.034	0.094	0.200	0.295	0.330	0.075	0.036
12556	Windsor	PM10 1400 Roselawn Dr.	54	0.006	0.008	0.010	0.014	0.023	0.053	0.054	0.013	0.011
12559	Windsor	PM10 5305 Adstol Ave.	46	0.002	0.008	0.011	0.014	0.026	0.034	0.034	0.012	0.009
12583	Windsor	PM10 13765 St. Gregory's Rd.	52	0.002	0.008	0.010	0.013	0.024	0.078	0.094	0.013	0.009
14550	Sarnia	PM10 6th Line, Moore TWP	50	0.002	0.004	0.004	0.007	0.012	0.014	0.014	0.006	0.005
14564	Sarnia	PM10 Centenial Park/ Front St.	51	0.002	0.006	0.006	0.012	0.018	0.044	0.062	0.010	0.007
15525	London	PM10 900 Highbury Ave. E.	56	0.003	0.006	0.012	0.018	0.032	0.037	0.038	0.014	0.010
17550	Embro	PM10 Earl Lantz Property	50	0.002	0.006	0.008	0.012	0.018	0.033	0.034	0.010	0.008
22304	Nanticoke	PM10 Walpole Ps Sandusk Rd	59	0.002	0.002	0.006	0.008	0.017	0.059	0.082	0.009	0.005
26365	Elmira	PM10 Mill St.	9	0.004	0.008	0.012	0.016	0.045	0.050	0.050	INS	INS
27308	St Catharines	PM10 71 King Street	58	0.004	0.010	0.016	0.020	0.028	0.045	0.054	0.017	0.013
27352	Thorold	PM10 185 Queen St S	56	0.008	0.015	0.020	0.026	0.035	0.089	0.130	0.023	0.018
29300	Hamilton	PM10 Elgin/Kelly St	59	0.010	0.019	0.028	0.047	0.178	0.440	0.440	0.064	0.034
29302	Hamilton	PM10 467 Beach Blvd	53	0.010	0.031	0.056	0.094	0.154	0.360	0.480	0.077	0.047
29313	Hamilton	PM10 Gertrude/Depew	54	0.032	0.080	0.135	0.192	0.499	0.799	0.820	0.204	0.130
29324	Hamilton	PM10 Buchanan Park Ps	50	0.006	0.008	0.014	0.027	0.093	0.232	0.310	0.034	0.017
31127	Toronto	PM10 Bay/Wellesley	11	0.006	0.008	0.010	0.014	0.016	0.018	0.018	INS	INS
35127	Etobicoke	PM10 Evans/Arnold	68	0.015	0.020	0.026	0.030	0.045	0.075	0.078	0.028	0.025
44127	Oakville	PM10 Bronte Rd/Woburn Cr	57	0.005	0.012	0.018	0.032	0.056	0.081	0.082	0.026	0.017
46127	Mississauga	PM10 Meadwood Park	57	0.002	0.006	0.008	0.016	0.022	0.038	0.048	0.011	0.008
62135	Fort Frances	PM10 Legion 250 Church	54	0.002	0.006	0.008	0.010	0.018	0.041	0.046	0.010	0.007
63201	Thunder Bay	PM10 615 James St S	60	0.004	0.008	0.014	0.022	0.042	0.076	0.082	0.019	0.013
71342	Sault Ste Marie	PM10 Bonney St	49	0.048	0.104	0.180	0.256	0.448	0.975	1.100	0.226	0.151
71368	Sault Ste Marie	PM10 Wm Merrifield S	49	0.008	0.018	0.032	0.052	0.110	0.505	0.750	0.060	0.031
77570	Copper Cliff	PM10 Market St	51	0.002	0.004	0.006	0.008	0.018	0.041	0.042	0.008	0.006

Table 29 Sulphate (SO_4^{2-}) in PM_{10} Statistics (1999)

Unit =micrograms/m^3

Stn	City	Location	Number of Samples	PERCENTILES 10%	30%	50%	70%	90%	99%	Max	Arith Mean	Geom Mean
12507	Windsor	PM10 Wright/Water St	57	1.5	2.4	2.9	4.6	8.1	18.5	18.7	4.2	3.2
12508	Windsor	PM10 467 University Ave W	41	1.8	2.7	3.2	6.3	11.7	19.2	19.6	5.5	4.1
12513	Windsor	PM10 3665 Wyndotte St E	51	1.4	2.2	3.0	4.1	8.7	20.1	20.6	4.5	3.4
12556	Windosr	PM10 1400 Roselawn Dr.	54	1.6	1.9	3.0	3.9	9.7	33.4	50.1	4.9	3.4
12559	Windsor	PM10 5305 Adstol Ave.	46	1.1	1.8	2.4	3.0	8.0	15.8	16.4	3.6	2.5
12583	Windsor	PM10 13765 St. Gregory's Rd.	52	1.4	2.2	3.0	4.2	8.2	15.1	20.4	4.0	3.2
14550	Sarnia	PM10 6th Line, Moore TWP	50	1.6	2.2	3.1	3.9	8.0	15.2	20.5	4.0	3.2
14564	Sarnia	PM10 Centenial Park/ Front St.	51	1.1	2.1	3.7	6.7	12.0	22.9	24.9	5.3	3.6
15525	London	PM10 900 Highbury Ave. E.	56	1.3	2.1	3.3	4.1	11.6	19.8	23.5	4.7	3.4
17550	Embro	PM10 Earl Lantz Property	50	1.5	2.3	3.3	5.3	8.7	17.7	20.7	4.7	3.5
22304	Nanticoke	PM10 Walpole Ps Sandusk Rd	59	1.1	2.2	3.4	4.6	10.4	18.4	21.2	4.6	3.3
26365	Elmira	PM10 Mill St.	9	1.9	2.4	2.6	3.6	4.4	4.7	4.7	INS	INS
27308	St Catharines	PM10 71 King Street	58	1.1	2.3	3.5	4.9	9.7	16.5	19.6	4.4	3.3
27352	Thorold	PM10 185 Queen St S	56	1.4	2.1	2.9	4.1	9.8	14.1	14.2	4.1	3.1
29300	Hamilton	PM10 Elgin/Kelly St	59	1.5	2.9	4.0	5.1	9.4	18.2	19.0	5.0	3.9
29302	Hamilton	PM10 467 Beach Blvd	53	1.3	3.3	4.1	5.6	9.4	12.8	13.4	4.8	3.9
29313	Hamilton	PM10 Gertrude/Depew	54	2.2	3.0	4.0	4.8	8.0	21.1	27.1	5.0	4.2
29324	Hamilton	PM10 Buchanan Park Ps	50	1.2	2.2	3.4	4.8	8.6	15.5	16.4	4.3	3.3
31127	Toronto	PM10 Bay/Wellesley	11	0.8	1.7	1.9	2.3	2.9	3.2	3.2	INS	INS
35127	Etobicoke	PM10 Evans/Arnold	68	1.1	1.7	3.1	4.8	10.1	16.1	17.8	4.4	2.9
44127	Oakville	PM10 Bronte Rd/Woburn Cr	57	1.2	2.2	3.5	4.5	8.0	15.7	16.5	4.2	3.2
46127	Mississauga	PM10 Meadwood Park	57	1.2	2.0	3.2	5.0	8.8	15.1	15.6	4.3	3.2
62135	Fort Frances	PM10 Legion 250 Church	54	0.5	1.0	1.4	1.9	2.9	6.7	8.3	1.7	1.3
63201	Thunder Bay	PM10 615 James St S	60	0.5	0.9	1.4	2.1	4.0	8.0	8.4	1.9	1.4
71342	Sault Ste Marie	PM10 Bonney St	49	0.8	1.9	3.3	6.7	12.9	24.9	29.9	5.5	3.2
71368	Sault Ste Marie	PM10 Wm Merrifield S	49	0.8	1.3	2.2	3.1	6.8	11.6	12.8	3.0	2.1
77570	Copper Cliff	PM10 Market St	51	0.7	1.2	2.1	3.1	5.2	14.4	14.5	3.0	2.0

TABLE 30 10-YEAR TREND FOR SO_2

Annual Mean (ppb)

SO_2 annual AAQC = 20 ppb

City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
BURLINGTON	6.0	3.0	6.0	6.0	4.0	2.0	4.0	5.1	3.2	4.9
CORNWALL	5.0	5.0	5.0	7.0	12.0	5.0	5.0	3.9	5.5	3.9
ETOBICOKE	6.0	6.0	8.0	5.0	4.0	3.0	4.0	4.9	4.1	n/a
HAMILTON	7.0	7.0	7.0	6.0	5.0	8.0	9.0	5.8	6.3	6.6
KITCHENER *	n/a	3.0	3.0	3.0	3.0	2.0	3.0	3.1	3.0	3.4
LONDON #	4.0	5.0	4.0	3.0	4.0	2.0	3.0	2.5	3.2	4.9
LONG POINT	4.0	4.0	5.0	2.0	3.0	2.0	3.0	2.7	3.0	3.7
MISSISSAUGA	4.0	5.0	6.0	3.0	3.0	2.0	n/a	n/a	5.1	4.7
NORTH YORK ^	2.0	2.0	3.0	4.0	3.0	2.0	5.0	4.4	4.2	5.0
OAKVILLE	5.0	5.0	4.0	5.0	4.0	2.0	5.0	4.8	5.1	4.0
OSHAWA	4.0	4.0	4.0	3.0	2.0	2.0	5.0	4.6	4.8	5.1
OTTAWA	2.0	3.0	2.0	2.0	1.0	1.0	5.0	6.3	3.4	4.2
SARNIA	12.0	9.0	9.0	10.0	9.0	6.0	7.0	8.5	10.3	11.8
SCARBOROUGH	6.0	4.0	3.0	3.0	3.0	4.0	6.0	5.2	4.2	4.9
SIMCOE	4.0	3.0	3.0	3.0	2.0	2.0	3.0	3.2	3.8	3.7
ST CATHARINES	4.0	5.0	5.0	3.0	3.0	5.0	6.0	5.8	4.0	2.2
STOUFFVILLE	3.0	4.0	3.0	3.0	4.0	3.0	3.0	3.3	n/a	n/a
SUDBURY	8.0	5.0	4.0	4.0	3.0	4.0	5.0	3.5	5.2	3.0
THUNDER BAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
TIVERTON	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0	2.7	n/a
TORONTO	6.0	5.0	8.0	7.0	3.0	3.0	5.0	5.3	4.0	n/a
WINDSOR	7.0	7.0	6.0	6.0	6.0	5.0	10.0	6.7	7.4	6.7
COMPOSITE MEAN	4.8	4.3	4.5	4.0	3.8	3.0	4.7	4.4	4.4	4.6

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site change from King/Rectory (15001) to 900 Highbury Ave (15025) in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 31 10-YEAR TREND FOR SP (as measured by COH)

Annual Mean (COH units/1000ft)

COH annual AAQC = 0.5 COH unit

City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CORNWALL	0.19	0.17	0.19	0.22	0.19	0.22	0.26	0.15	0.09	0.13
ETOBICOKE	0.52	0.50	0.46	0.51	0.38	0.33	0.29	0.26	0.34	0.33
HAMILTON	0.42	0.41	0.45	0.48	0.47	0.39	0.43	0.33	0.33	0.25
LONDON *	0.28	0.25	0.24	0.25	0.25	0.20	0.21	0.17	0.18	0.14
NORTH YORK #	0.30	0.33	0.31	0.35	0.40	0.38	0.37	0.28	0.29	n/a
OSHAWA	0.37	0.35	0.31	0.36	0.37	0.23	0.26	0.24	n/a	n/a
OTTAWA	0.35	0.25	0.28	0.24	0.22	0.18	0.18	0.16	0.17	n/a
SARNIA	0.28	0.24	0.22	0.20	0.20	0.18	0.17	0.18	0.19	0.18
SCARBOROUGH	0.36	0.34	0.30	0.30	0.34	0.32	0.28	0.28	n/a	n/a
SUDBURY	0.12	0.17	0.17	0.21	0.19	0.14	0.15	0.12	0.09	0.11
ST CATHARINES	0.25	0.25	0.26	0.27	0.25	0.24	0.24	0.20	0.21	0.20
TORONTO	0.38	0.40	0.39	0.42	0.38	0.38	0.44	0.35	n/a	n/a
WINDSOR	0.40	0.30	0.34	0.36	0.28	0.31	0.26	0.15	0.20	0.19
COMPOSITE MEAN	0.32	0.30	0.30	0.32	0.30	0.27	0.27	0.22	0.21	0.19

* Site changed from King/Rectory (15001) to 900 Highbury Ave (15025)

Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 32 10-YEAR TREND FOR TRS

Annual Mean (ppb)

City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CORNWALL	3.4	2.9	2.3	1.8	2.5	1.3	1.2	2.0	1.2	0.90
FORT FRANCES	5.5	4.3	4.2	4.2	2.4	2.5	2.7	2.6	1.4	1.2
HAMILTON	0.9	0.8	0.6	0.7	1.1	1.2	1.4	1.0	0.7	0.6
MARATHON	1.1	0.9	0.5	0.7	0.9	0.5	0.4	0.2	0.1	0.1
OAKVILLE	1.3	1.6	0.5	1.0	1.3	0.3	1.3	1.3	1.1	1.4
RED ROCK	1.7	1.4	2.0	1.9	3.2	1.1	1.2	1.6	2.8	3.8
TERRACE BAY	1.3	1.3	1.7	1.7	1.1	1.7	1.3	1.0	1.0	0.9
TIVERTON	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.1	0.2	n/a
THUNDER BAY	0.2	0.2	0.3	0.2	0.3	0.3	0.8	1.1	1.3	1.2
COMPOSITE MEAN	1.7	1.5	1.1	1.3	1.4	1.0	1.2	1.2	1.1	1.3

TABLE 33 10-YEAR TREND FOR CO

Annual Mean (ppm)

CITY	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CORNWALL	0.6	0.8	0.5	0.8	0.5	0.6	0.6	1.1	0.3	0.4
ETOBICOKE	0.8	0.8	0.6	0.7	0.7	0.8	0.7	1.0	1.0	1.0
HAMILTON	1.2	1.1	1.2	1.1	0.8	0.6	1.0	0.7	1.1	0.8
KITCHENER *	n/a	0.6	0.5	0.4	0.3	0.3	0.4	0.2	0.3	0.4
LONDON #	0.6	0.7	0.7	0.6	0.5	0.1	0.0	0.3	0.1	0.3
NORTH YORK ^	1.0	0.7	1.0	1.1	0.9	0.5	0.9	0.7	1.0	0.8
OAKVILLE	0.5	0.5	0.3	0.7	0.7	0.5	0.7	0.3	0.2	0.2
OSHAWA	0.9	0.8	0.9	0.9	1.0	0.8	0.6	0.4	1.0	0.7
OTTAWA	0.7	1.0	1.1	0.9	0.8	0.6	0.7	0.4	1.1	0.8
SARNIA	0.3	0.2	0.3	0.2	0.2	0.1	0.2	0.2	0.3	0.3
SCARBOROUGH	1.2	1.2	1.0	0.8	1.0	1.0	1.1	0.6	0.9	0.8
ST CATHARINES	0.9	1.0	0.7	0.5	0.4	0.2	0.3	0.1	0.4	0.2
SUDBURY	0.5	0.3	0.1	0.1	0.1	0.0	0.1	0.0	0.0	0.0
TORONTO	1.1	1.1	1.0	1.1	1.0	0.7	1.3	1.2	1.1	n/a
WINDSOR	1.2	1.0	0.9	0.8	1.0	0.9	0.8	0.6	0.7	0.6
COMPOSITE MEAN	0.8	0.8	0.7	0.7	0.7	0.5	0.6	0.5	0.6	0.5

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site changed location from King/Rectory to 900 Highbury Ave in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 34 10-YEAR TREND FOR NO_2

Annual Mean (ppb)

City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CORNWALL	8.0	6.0	10.0	8.0	9.0	8.0	12.0	8.0	n/a	9.0
ETOBICOKE	26.0	25.0	26.0	26.0	27.0	25.0	25.0	26.7	26.2	24.7
HAMILTON	22.0	22.0	19.0	22.0	22.0	19.0	22.0	18.6	22.4	21.6
KITCHENER *	n/a	13.0	15.0	14.0	14.0	11.0	13.0	13.7	16.5	14.0
LONDON #	21.0	19.0	18.0	20.0	23.0	20.0	18.0	18.0	17.7	19.4
NORTH YORK ^	28.0	29.0	24.0	21.0	20.0	18.0	22.0	20.2	23.4	24.3
OAKVILLE	17.0	17.0	16.0	19.0	17.0	17.0	20.0	20.8	17.1	17.2
OSHAWA	19.0	18.0	18.0	19.0	18.0	20.0	19.0	18.6	20.0	21.5
OTTAWA	16.0	20.0	17.0	19.0	19.0	16.0	13.0	12.5	12.4	12.2
SARNIA	21.0	19.0	20.0	16.0	18.0	17.0	16.0	16.9	18.0	16.7
SCARBOROUGH	25.0	24.0	19.0	19.0	22.0	25.0	23.0	23.4	25.5	24.6
ST CATHARINES	16.0	16.0	12.0	17.0	17.0	14.0	16.0	13.8	15.7	16.2
SUDBURY	9.0	9.0	9.0	10.0	11.0	12.0	8.0	7.4	6.0	7.7
TORONTO	25.0	29.0	27.0	29.0	30.0	30.0	34.0	31.7	27.7	26.9
WINDSOR	25.0	25.0	25.0	26.0	28.0	25.0	26.0	23.8	23.8	22.9
COMPOSITE MEAN	19.9	19.4	18.3	19.0	19.7	18.5	19.1	18.3	19.5	18.6

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site changed location from King/Rectory to 900 Highbury Ave in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 35 10-YEAR TREND FOR NO

Annual Mean (ppb)

CITY	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CORNWALL	8.0	6.0	8.0	7.0	6.0	6.0	8.0	6.3	n/a	5.9
ETOBICOKE	23.0	19.0	25.0	22.0	23.0	19.0	22.0	18.6	17.9	20.7
HAMILTON	12.0	11.0	15.0	17.0	18.0	16.0	15.0	10.8	12.6	12.0
KITCHENER *	n/a	5.0	6.0	6.0	8.0	7.0	7.0	5.5	6.9	6.6
LONDON #	16.0	11.0	13.0	13.0	18.0	15.0	10.0	7.6	9.1	8.5
NORTH YORK ^	38.0	20.0	21.0	16.0	17.0	18.0	17.0	16.3	16.5	16.5
OAKVILLE	15.0	11.0	13.0	16.0	15.0	15.0	16.0	14.9	15.8	13.0
OSHAWA	20.0	14.0	14.0	17.0	19.0	18.0	15.0	16.4	15.6	15.1
OTTAWA	9.0	9.0	11.0	12.0	11.0	7.0	8.0	7.0	7.9	14.8
SARNIA	7.0	6.0	7.0	7.0	9.0	6.0	7.0	7.0	6.9	7.1
SCARBOROUGH	27.0	26.0	25.0	24.0	26.0	24.0	23.0	24.9	23.2	20.1
ST CATHARINES	11.0	8.0	14.0	12.0	10.0	10.0	13.0	10.3	16.3	11.7
SUDBURY	5.0	5.0	4.0	4.0	5.0	6.0	6.0	4.9	3.7	5.0
TORONTO	21.0	n/a	25.0	27.0	25.0	23.0	42.0	32.9	24.3	15.8
WINDSOR	16.0	19.0	18.0	17.0	17.0	15.0	16.0	15.9	16.3	13.3
COMPOSITE MEAN	16.3	12.1	14.6	14.5	15.1	13.7	15.0	13.3	13.8	12.4

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site change location from King/Rectory (15001) to 900 Highbury Ave (15025) in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 36 10-YEAR TREND FOR NOx

Annual Mean (ppb)

City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CORNWALL	18.0	16.0	19.0	17.0	17.0	16.0	17.0	14.5	n/a	14.7
ETOBICOKE	50.0	44.0	51.0	49.0	49.0	45.0	47.0	45.2	43.7	45.4
HAMILTON	35.0	33.0	33.0	39.0	40.0	35.0	37.0	29.5	34.7	34.0
KITCHENER*	39.0	21.0	22.0	21.0	23.0	20.0	20.0	19.2	23.9	20.5
LONDON #	34.0	31.0	34.0	35.0	38.0	32.0	28.0	24.4	25.8	25.9
NORTH YORK ^	66.0	49.0	45.0	37.0	38.0	36.0	39.0	36.7	39.9	40.7
OAKVILLE	31.0	28.0	30.0	35.0	34.0	32.0	33.0	32.8	30.0	29.6
OSHAWA	40.0	32.0	33.0	36.0	37.0	36.0	35.0	34.9	35.1	35.8
OTTAWA	25.0	29.0	28.0	29.0	28.0	22.0	25.0	19.6	22.8	27.5
SARNIA	29.0	26.0	26.0	23.0	28.0	23.0	23.0	24.9	25.1	23.5
SCARBOROUGH	51.0	50.0	46.0	46.0	50.0	49.0	45.0	47.5	48.3	44.9
ST CATHARINES	27.0	24.0	27.0	30.0	28.0	25.0	29.0	24.5	31.7	24.8
SUDBURY	14.0	14.0	14.0	16.0	17.0	17.0	14.0	12.5	9.4	12.7
TORONTO	46.0	54.0	52.0	55.0	54.0	55.0	76.0	64.3	51.6	41.9
WINDSOR	41.0	42.0	42.0	42.0	42.0	38.0	39.0	39.3	38.5	37.0
COMPOSITE MEAN	36.4	32.9	33.5	34.0	34.9	32.1	33.8	31.3	32.9	30.6

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site change from King/Rectory (15001) to 900 Highbury Ave (15025) in 1995

^ Site changed location from Science Centre (34002) to North York Central (34020) in 1992.

n/a - data not available

TABLE 37 10-YEAR TREND FOR O_3

Annual Mean (ppb)

CITY	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
CORNWALL	21.2	20.7	20.8	21.6	21.7	23.5	21.0	22.8	24.2	25.80
ETOBICOKE	16.4	19.0	15.4	16.0	17.4	16.3	17.1	19.4	20.2	n/a
GRAND BEND	27.4	n/a	29.7	31.3	30.2	31.3	31.9	31.2	31.2	32.5
HAMILTON	17.6	19.9	16.9	16.9	17.0	18.0	17.3	18.1	19.1	19.5
KITCHENER *	n/a	27.2	22.7	23.2	24.4	25.1	23.8	23.4	25.4	25.2
LONDON #	22.1	22.7	20.3	22.8	23.1	21.7	23.1	22.8	25.1	25.8
LONG POINT	33.0	33.9	32.3	31.2	32.2	31.0	34.4	35.2	32.9	35.6
MANDAUMIN	23.7	28.1	23.5	24.5	24.6	24.0	23.4	27.9	29.9	29.0
MERLIN	26.0	28.4	24.3	23.7	24.2	28.0	28.6	27.0	28.4	27.2
MISSISSAUGA	17.8	18.6	15.6	16.1	19.5	19.2	19.4	20.0	20.8	22.2
OAKVILLE	22.2	22.1	19.3	21.0	22.5	20.4	21.1	20.8	21.8	22.4
OSHAWA	18.8	22.6	20.3	21.4	23.8	22.7	21.9	23.2	23.1	25.0
OTTAWA	21.5	20.8	17.4	18.1	19.7	20.9	18.9	20.6	19.1	21.2
SARNIA	21.4	23.4	21.3	22.6	21.4	22.2	25.2	24.5	26.1	26.5
SCARBOROUGH	17.6	19.1	14.3	17.0	18.2	19.3	18.9	18.0	20.6	21.5
SIMCOE	26.3	29.1	25.1	27.8	30.2	30.7	29.9	28.6	31.1	31.3
ST CATHARINES	23.8	25.0	19.3	23.9	23.6	20.5	20.3	20.9	20.8	21.7
STOUFFVILLE	24.9	25.0	23.0	23.0	25.3	24.4	26.4	30.1	31.4	31.2
SUDBURY	27.2	27.0	25.4	25.9	27.1	29.7	28.1	28.0	29.1	30.7
TIVERTON	31.3	34.2	33.4	32.2	31.7	31.6	32.0	32.5	32.2	n/a
TORONTO	15.7	18.0	12.5	14.6	16.9	16.6	12.2	13.7	17.8	20.2
WINDSOR	17.1	17.6	15.1	17.1	18.0	18.3	20.4	20.7	21.4	21.7
COMPOSITE MEAN	21.8	24.3	21.2	23.1	23.9	23.4	23.4	24.1	25.1	25.8

* Site changed location from Edna/Frederick St (26029) to West Ave/Homewood (26060) in 1990.

Site change from King/Rectory (15001) to 900 Highbury Ave (15025) in 1995

n/a - data not available

Table 38 Stations Used in Gaseous Trends

City	Station# (Sampling Period)
Burlington	44008 (1990 - 1999)
Cornwall	56051 (1990 - 1999)
Etobicoke	35003 (1990 - 1999)
Fort Frances	62030 (1990 - 1999)
Hamilton	29000 (1990 - 1999)
Grand Bend	10001 (1990);15020 (1991-1999)
Kitchener	26029 (1990);26060 (1991-1999)
London	15001 (1990 - 1995);15025 (1996 - 1999)
Long Point	22901 (1990 - 1999)
Mandaumin	14118 (1990 - 1999)
Merlin	13021 (1990 - 1999)
Mississauga	46110 (1990 - 1999)
Niagara Falls	27056 (1990 - 1992);27072 (1993-1999)
North Bay	75010 (1990 - 1999)
North York	34002 (1990 - 1991);34020 (1992-1999)
Oakville	44015 (1990 - 1999)
Oshawa	45025 (1990 - 1999)
Ottawa	51001 (1990 - 1999)
Peterborough	59006 (1990 - 1999)
Sarnia	14064 (1990 - 1999)
Scarborough	33003 (1990 - 1999)
Simcoe	22071 (1990 - 1999)
St Catharines	27067 (1990 - 1999)
Stouffville	48002 (1990 - 1999)
Sudbury	77203 (1990 - 1999)
Thunder Bay	63200 (1990 - 1999)
Tiverton	18007 (1990 - 1999)
Toronto	31104 (1990);31103 (1991 - 1999)
Windsor	12008 (1990 - 1999)

Table 39 VOC Annual Statistics at Egbert (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	218	0.316	0.341	0.378	0.400	0.421	0.480	0.258	0.373	0.040
1,2,3-Trimethylbenzene	218	0.000	0.000	0.017	0.028	0.051	0.172	0.000	0.022	0.026
1,2,4-Trimethylbenzene	218	0.015	0.026	0.037	0.074	0.178	0.720	0.000	0.073	0.096
1,3,5-Trimethylbenzene	218	0.000	0.011	0.016	0.025	0.045	0.216	0.000	0.023	0.029
1,3-Butadiene	218	0.000	0.000	0.016	0.029	0.040	0.145	0.000	0.018	0.021
1,3-Diethylbenzene	218	0.000	0.000	0.000	0.016	0.023	0.047	0.000	0.008	0.011
1,4-Dichlorobenzene	218	0.015	0.023	0.027	0.035	0.052	0.613	0.000	0.034	0.043
1,4-Diethylbenzene	218	0.000	0.000	0.025	0.040	0.061	0.130	0.000	0.026	0.028
1-Butene/Isobutene	218	0.061	0.090	0.117	0.160	0.214	0.597	0.000	0.135	0.075
1-Hexene	218	0.000	0.036	0.059	0.077	0.116	0.273	0.000	0.063	0.052
1-Pentene	218	0.000	0.035	0.044	0.058	0.072	0.259	0.000	0.048	0.030
2,2,4-Trimethylpentane	218	0.024	0.040	0.070	0.130	0.229	0.540	0.000	0.104	0.094
2,2,5-Trimethylhexane	218	0.000	0.000	0.000	0.016	0.025	0.053	0.000	0.009	0.012
2,2-Dimethylbutane	218	0.022	0.047	0.062	0.089	0.118	0.271	0.000	0.071	0.039
2,2-Dimethylhexane	218	0.000	0.000	0.000	0.014	0.021	0.036	0.000	0.006	0.009
2,2-Dimethylpentane	218	0.000	0.000	0.000	0.024	0.037	0.069	0.000	0.013	0.017
2,3,4-Trimethylpentane	218	0.000	0.000	0.000	0.049	0.091	0.199	0.000	0.030	0.043
2,3-Dimethylbutane	218	0.000	0.000	0.039	0.074	0.130	0.335	0.000	0.053	0.058
2,3-Dimethylpentane	218	0.000	0.000	0.043	0.072	0.120	0.214	0.000	0.048	0.050
2,4-Dimethylhexane	218	0.000	0.000	0.000	0.036	0.055	0.123	0.000	0.020	0.027
2,4-Dimethylpentane	218	0.000	0.000	0.000	0.046	0.070	0.163	0.000	0.023	0.033
2,5-Dimethylhexane	218	0.000	0.000	0.000	0.027	0.043	0.102	0.000	0.015	0.022
2-Ethyltoluene	218	0.000	0.015	0.020	0.037	0.068	0.203	0.000	0.031	0.031
2-Methyl-1-butene	218	0.000	0.000	0.019	0.030	0.047	0.111	0.000	0.021	0.023
2-Methyl-2-butene	218	0.000	0.020	0.030	0.036	0.046	0.100	0.000	0.027	0.018
2-Methylheptane	218	0.000	0.000	0.000	0.050	0.089	0.273	0.000	0.032	0.052
2-Methylhexane	218	0.000	0.000	0.053	0.101	0.191	0.416	0.000	0.071	0.086
2-Methylpentane	218	0.040	0.081	0.141	0.278	0.455	1.339	0.000	0.216	0.209
3-Ethyltoluene	218	0.010	0.016	0.024	0.060	0.125	0.457	0.000	0.052	0.070
3-Methyl-1-pentene	218	0.000	0.000	0.000	0.000	0.026	0.050	0.000	0.006	0.012
3-Methylheptane	218	0.000	0.000	0.000	0.042	0.084	0.221	0.000	0.027	0.045
3-Methylhexane	218	0.000	0.000	0.050	0.115	0.227	0.502	0.000	0.078	0.100
3-Methylpentane	218	0.033	0.059	0.099	0.204	0.330	0.745	0.000	0.154	0.141
4-Ethyltoluene	218	0.013	0.020	0.026	0.047	0.072	0.239	0.000	0.039	0.034
4-Methyl-1-pentene	218	0.000	0.000	0.000	0.000	0.029	0.057	0.000	0.007	0.014
4-Methylheptane	218	0.000	0.000	0.000	0.000	0.033	0.090	0.000	0.008	0.018
Acetaldehyde	140	0.452	0.744	1.087	1.585	2.096	6.698	0.104	1.266	0.789

Table 39 VOC Annual Statistics at Egbert (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
Acetone	140	1.181	2.353	3.750	5.177	6.211	11.749	0.000	3.855	1.952
Acetylene	218	0.177	0.323	0.568	1.029	1.524	3.571	0.139	0.741	0.560
Benzene	218	0.118	0.203	0.348	0.552	0.835	1.976	0.066	0.424	0.293
Butane	218	0.103	0.241	0.528	1.208	2.218	5.539	0.058	0.900	0.975
Carbontetrachloride	218	0.524	0.580	0.616	0.684	0.730	0.826	0.282	0.628	0.075
Chloroform	218	0.071	0.084	0.093	0.104	0.118	0.182	0.053	0.095	0.017
Chloromethane	218	0.806	1.025	1.129	1.243	1.341	1.649	0.707	1.131	0.176
cis-1,2-Dimethylcyclohe	218	0.000	0.000	0.000	0.022	0.031	0.049	0.000	0.009	0.014
cis-1,3-Dimethylcyclohe	218	0.000	0.000	0.000	0.020	0.039	0.170	0.000	0.016	0.028
cis-1,4/t-1,3-Dimethylcy	218	0.000	0.000	0.000	0.009	0.019	0.065	0.000	0.006	0.011
cis-2-Butene	218	0.000	0.000	0.015	0.025	0.037	0.098	0.000	0.016	0.018
cis-2-Hexene	218	0.000	0.000	0.000	0.000	0.000	0.032	0.000	0.001	0.003
cis-2-Pentene	218	0.000	0.000	0.031	0.038	0.049	0.083	0.000	0.027	0.020
cis-3-Methyl-2-pentene	218	0.000	0.000	0.000	0.000	0.004	0.034	0.000	0.002	0.007
cis-4-Methyl-2-pentene	218	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Cyclohexane	218	0.000	0.000	0.024	0.065	0.126	6.420	0.000	0.125	0.643
Cyclopentane	218	0.000	0.000	0.037	0.068	0.100	0.259	0.000	0.045	0.046
Cyclopentene	218	0.000	0.010	0.017	0.025	0.033	0.057	0.000	0.018	0.012
Decane	218	0.000	0.000	0.030	0.066	0.131	0.400	0.000	0.050	0.067
Dichloromethane	218	0.139	0.171	0.212	0.322	0.687	3.530	0.116	0.357	0.449
Dodecane	218	0.000	0.000	0.000	0.043	0.073	0.461	0.000	0.030	0.054
Ethane	218	0.931	1.272	2.019	3.021	4.016	6.660	0.768	2.315	1.229
Ethylbenzene	218	0.026	0.041	0.075	0.191	0.456	1.476	0.015	0.172	0.230
Ethylene	218	0.190	0.234	0.336	0.643	1.095	3.054	0.163	0.538	0.492
Formaldehyde	140	0.633	1.284	2.220	3.081	3.870	6.223	0.102	2.280	1.220
Freon11	218	1.086	1.392	1.575	1.747	1.831	2.261	0.981	1.551	0.254
Freon22	218	0.387	0.462	0.524	0.583	0.666	1.064	0.287	0.534	0.112
Heptane	218	0.000	0.060	0.090	0.140	0.219	0.598	0.000	0.114	0.089
Hexane	218	0.033	0.063	0.107	0.260	0.425	1.500	0.000	0.200	0.233
Indane	218	0.000	0.000	0.016	0.025	0.035	0.085	0.000	0.016	0.017
Isobutane	218	0.052	0.135	0.276	0.616	1.192	2.430	0.028	0.461	0.482
Isopentane	218	0.109	0.208	0.449	0.939	1.543	3.010	0.059	0.674	0.628
Isoprene	218	0.000	0.020	0.124	0.388	0.896	2.669	0.000	0.330	0.539
iso-Propylbenzene	218	0.000	0.014	0.019	0.028	0.039	0.092	0.000	0.022	0.014
m and p-Xylene	218	0.042	0.061	0.103	0.317	0.906	4.187	0.029	0.339	0.593
MEK	140	0.000	0.198	0.490	0.854	1.401	6.187	0.00	0.662	0.795
Methylcyclohexane	218	0.000	0.000	0.026	0.064	0.111	0.510	0.000	0.048	0.080

Table 39 VOC Annual Statistics at Egbert (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
Methylcyclopentane	218	0.000	0.014	0.039	0.100	0.173	0.423	0.000	0.069	0.079
Naphthalene	193	0.008	0.017	0.024	0.046	0.088	0.323	0.000	0.040	0.045
n-Butylbenzene	218	0.000	0.000	0.000	0.018	0.025	0.046	0.000	0.009	0.011
Nonane	218	0.000	0.000	0.026	0.060	0.109	0.320	0.000	0.043	0.058
n-Propylbenzene	218	0.006	0.017	0.025	0.040	0.073	0.170	0.000	0.034	0.029
Octane	218	0.000	0.028	0.044	0.069	0.124	0.397	0.000	0.059	0.062
o-Xylene	218	0.021	0.030	0.048	0.122	0.298	1.106	0.000	0.119	0.170
p-Cymene	218	0.000	0.000	0.000	0.000	0.026	0.055	0.000	0.006	0.013
Pentane	218	0.089	0.156	0.300	0.587	0.923	1.821	0.045	0.427	0.367
Propane	218	0.138	0.428	1.049	2.110	3.123	5.230	0.000	1.411	1.187
Propionaldehyde	140	0.000	0.091	0.233	0.338	0.514	1.476	0.000	0.246	0.218
Propylene	218	0.057	0.074	0.095	0.157	0.259	0.914	0.037	0.141	0.125
Styrene	218	0.000	0.000	0.022	0.032	0.074	0.390	0.000	0.035	0.060
Toluene	218	0.114	0.177	0.334	0.800	2.072	9.417	0.067	0.812	1.240
trans-1,2-Dimethylcyclo	218	0.000	0.000	0.000	0.000	0.035	0.110	0.000	0.009	0.021
trans-1,4-Dimethylcyclo	218	0.000	0.000	0.000	0.008	0.019	0.069	0.000	0.006	0.012
trans-2-Butene	218	0.000	0.000	0.000	0.024	0.034	0.080	0.000	0.013	0.017
trans-2-Hexene	218	0.000	0.000	0.000	0.000	0.016	0.036	0.000	0.003	0.008
trans-2-Pentene	218	0.000	0.000	0.000	0.020	0.027	0.083	0.000	0.010	0.015
trans-3-Methyl-2-penten	218	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Trichloroethylene	218	0.025	0.045	0.059	0.090	0.153	0.545	0.000	0.088	0.092
Undecane	218	0.000	0.000	0.030	0.053	0.102	0.270	0.000	0.040	0.046

Note: VOC sites are operated by Environment Canada.

Table 40 VOC Annual Statistics at Etobicoke South (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	56	0.328	0.360	0.390	0.416	0.460	1.770	0.240	0.418	0.191
1,1,2,2-Tetrachloroethane	56	0.000	0.030	0.060	0.070	0.080	0.100	0.000	0.051	0.025
1,1,2-Trichloroethane	56	0.000	0.020	0.050	0.060	0.060	0.090	0.000	0.041	0.027
1,1-Dichloroethane	56	0.000	0.000	0.040	0.050	0.060	0.730	0.000	0.042	0.096
1,1-Dichloroethylene	56	0.000	0.030	0.080	0.090	0.090	0.110	0.000	0.060	0.032
1,2,3-Trimethylbenzene	56	0.088	0.158	0.260	0.361	0.520	0.820	0.040	0.286	0.172
1,2,4-Trichlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	56	0.380	0.585	1.030	1.455	2.120	3.710	0.180	1.152	0.743
1,2-Dichlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	56	0.060	0.073	0.090	0.125	0.210	0.330	0.060	0.116	0.065
1,2-Dichloropropane	56	0.000	0.000	0.000	0.050	0.050	0.060	0.000	0.020	0.024
1,2-Diethylbenzene	56	0.010	0.020	0.030	0.050	0.055	0.090	0.000	0.036	0.017
1,3,5-Trimethylbenzene	56	0.128	0.198	0.340	0.478	0.685	1.120	0.060	0.374	0.231
1,3-Butadiene	56	0.128	0.180	0.210	0.290	0.395	0.640	0.100	0.252	0.111
1,3-Dichlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	56	0.030	0.042	0.070	0.100	0.130	0.200	0.010	0.077	0.040
1,4-Dichlorobenzene	56	0.050	0.090	0.130	0.193	0.295	0.420	0.040	0.155	0.094
1,4-Dichlorobutane	56	0.000	0.000	0.000	0.000	0.040	0.100	0.000	0.008	0.020
1,4-Diethylbenzene	54	0.077	0.120	0.190	0.269	0.367	0.690	0.040	0.214	0.122
1-Butene/Isobutene	56	0.468	0.620	0.775	1.105	1.365	2.090	0.320	0.880	0.373
1-Butyne	56	0.000	0.000	0.010	0.040	0.040	0.060	0.000	0.018	0.019
1-Decene	36	0.000	0.000	0.035	0.133	0.175	0.240	0.000	0.066	0.079
1-Heptene	36	0.078	0.118	0.180	0.230	0.300	0.406	0.050	0.180	0.085
1-Hexene	56	0.108	0.200	0.245	0.293	0.315	0.550	0.000	0.246	0.096
1-Methylcyclohexene	56	0.030	0.058	0.070	0.070	0.080	0.120	0.030	0.064	0.018
1-Methylcyclopentene	56	0.040	0.058	0.070	0.100	0.120	0.190	0.000	0.080	0.036
1-Nonene	36	0.000	0.000	0.030	0.095	0.135	0.230	0.000	0.052	0.061
1-Octene	36	0.000	0.038	0.050	0.060	0.080	0.130	0.000	0.048	0.029
1-Pentene	56	0.093	0.130	0.200	0.243	0.295	0.510	0.000	0.196	0.086
1-Propyne	53	0.070	0.100	0.130	0.170	0.218	0.360	0.000	0.138	0.061
2,2,3-Trimethylbutane	56	0.000	0.000	0.000	0.020	0.035	0.050	0.000	0.009	0.015
2,2,4-Trimethylpentane	56	0.283	0.423	0.660	0.895	1.245	2.230	0.220	0.723	0.392
2,2,5-Trimethylhexane	56	0.020	0.040	0.050	0.080	0.100	0.180	0.020	0.061	0.033
2,2-Dimethylbutane	56	0.100	0.158	0.230	0.313	0.390	0.690	0.090	0.243	0.117
2,2-Dimethylhexane	56	0.018	0.022	0.035	0.050	0.060	0.080	0.010	0.038	0.017
2,2-Dimethylpentane	56	0.030	0.040	0.060	0.080	0.110	0.220	0.020	0.069	0.040
2,2-Dimethylpropane	56	0.030	0.050	0.060	0.080	0.100	0.460	0.030	0.072	0.058

Table 40 VOC Annual Statistics at Etobicoke South (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	56	0.105	0.160	0.245	0.350	0.465	0.850	0.080	0.281	0.157
2,3-Dimethylbutane	56	0.155	0.245	0.405	0.545	0.720	1.190	0.140	0.427	0.231
2,3-Dimethylpentane	56	0.153	0.220	0.310	0.433	0.585	0.940	0.120	0.351	0.178
2,4-Dimethylhexane	56	0.070	0.110	0.140	0.193	0.275	0.430	0.050	0.160	0.081
2,4-Dimethylpentane	56	0.060	0.108	0.175	0.230	0.330	0.610	0.030	0.191	0.113
2,5-Dimethylhexane	56	0.050	0.085	0.120	0.153	0.230	0.350	0.040	0.133	0.066
2-Ethyl-1-Butene	56	0.000	0.020	0.030	0.040	0.060	0.100	0.000	0.032	0.022
2-Ethyltoluene	56	0.100	0.165	0.275	0.373	0.525	0.880	0.060	0.295	0.173
2-Methyl-1-butene	56	0.088	0.160	0.250	0.370	0.490	1.230	0.000	0.286	0.191
2-Methyl-2-butene	56	0.163	0.235	0.340	0.465	0.620	0.920	0.090	0.367	0.178
2-Methylheptane	56	0.125	0.208	0.285	0.408	0.580	1.190	0.080	0.347	0.225
2-Methylhexane	56	0.230	0.398	0.512	0.758	1.070	1.590	0.180	0.602	0.320
2-Methylpentane	56	0.628	0.923	1.480	1.845	3.015	4.290	0.580	1.604	0.870
3,6-Dimethyloctane	56	0.000	0.030	0.055	0.080	0.105	0.150	0.000	0.055	0.039
3-Ethyltoluene	56	0.228	0.365	0.625	0.853	1.235	1.870	0.140	0.678	0.406
3-Methyl-1-pentene	56	0.000	0.000	0.050	0.070	0.080	0.130	0.000	0.039	0.035
3-Methylheptane	56	0.108	0.178	0.250	0.323	0.550	0.850	0.070	0.290	0.174
3-Methylhexane	56	0.228	0.419	0.600	0.893	1.200	1.810	0.100	0.674	0.385
3-Methylpentane	56	0.450	0.665	1.005	1.475	1.885	2.930	0.400	1.104	0.602
4-Ethyltoluene	56	0.128	0.190	0.325	0.480	0.645	0.990	0.090	0.360	0.211
4-Methyl-1-pentene	56	0.000	0.000	0.045	0.060	0.075	0.100	0.000	0.036	0.033
4-Methylheptane	56	0.050	0.080	0.108	0.160	0.240	0.390	0.030	0.130	0.080
Acetylene	56	1.189	1.677	2.423	2.996	4.450	7.321	0.821	2.616	1.296
Benzene	56	0.820	1.178	1.475	1.940	2.525	4.470	0.600	1.648	0.714
Benzylchloride	56	0.030	0.032	0.060	0.063	0.080	0.139	0.020	0.054	0.022
Bromodichloromethane	39	0.000	0.080	0.100	0.110	0.130	0.160	0.000	0.088	0.041
Bromoform	56	0.030	0.040	0.060	0.070	0.080	0.090	0.030	0.055	0.018
Bromomethane	56	0.092	0.118	0.180	0.210	0.225	0.300	0.090	0.166	0.053
Bromotrichloromethane	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Butane	56	2.038	2.953	3.905	7.001	11.250	40.740	1.210	5.960	5.987
Carbontetrachloride	56	0.553	0.620	0.650	0.673	0.725	0.740	0.360	0.642	0.073
Chlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	56	0.050	0.078	0.100	0.123	0.180	0.320	0.000	0.107	0.055
Chloroform	56	0.090	0.128	0.160	0.193	0.270	1.230	0.080	0.184	0.156
Chloromethane	56	1.028	1.120	1.180	1.253	1.340	1.660	0.880	1.195	0.132
cis-1,2-Dichloroethylene	56	0.000	0.020	0.050	0.050	0.060	0.070	0.000	0.039	0.023
cis-1,2-Dimethylcyclohex	53	0.000	0.040	0.050	0.070	0.090	0.120	0.000	0.055	0.028

Table 40 VOC Annual Statistics at Etobicoke South (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dichloropropene	56	0.000	0.000	0.000	0.000	0.010	0.020	0.000	0.002	0.005
cis-1,3-Dimethylcyclohex	53	0.046	0.080	0.110	0.210	0.356	0.560	0.030	0.161	0.123
cis-1,4/t-1,3-Dimethylcyc	56	0.020	0.030	0.046	0.080	0.110	0.150	0.010	0.057	0.034
cis-2-Butene	56	0.100	0.150	0.210	0.290	0.355	0.520	0.070	0.228	0.107
cis-2-Heptene	56	0.000	0.000	0.045	0.060	0.080	0.110	0.000	0.038	0.031
cis-2-Hexene	56	0.000	0.020	0.040	0.070	0.080	0.130	0.000	0.043	0.032
cis-2-Pentene	56	0.088	0.148	0.180	0.233	0.280	0.420	0.060	0.188	0.073
cis-3-Methyl-2-pentene	56	0.020	0.040	0.050	0.070	0.090	0.150	0.000	0.056	0.030
cis-4-Methyl-2-pentene	56	0.000	0.000	0.000	0.090	0.125	0.214	0.000	0.047	0.059
Cyclohexane	56	0.078	0.128	0.182	0.253	0.375	0.670	0.060	0.210	0.127
Cyclohexene	56	0.000	0.000	0.035	0.060	0.070	0.170	0.000	0.034	0.037
Cyclopentane	56	0.120	0.180	0.305	0.468	0.635	2.250	0.110	0.395	0.374
Cyclopentene	54	0.030	0.040	0.060	0.090	0.117	0.150	0.030	0.068	0.033
Decane	56	0.170	0.313	0.643	0.950	1.340	2.380	0.110	0.697	0.470
Dibromochloromethane	51	0.010	0.030	0.060	0.070	0.080	0.130	0.000	0.053	0.029
Dibromomethane	56	0.049	0.060	0.115	0.120	0.130	0.150	0.000	0.095	0.037
Dichloromethane	56	0.565	1.123	2.215	4.457	11.880	36.050	0.250	4.665	6.537
Dodecane	56	0.070	0.118	0.160	0.240	0.290	0.470	0.040	0.180	0.088
EDB	56	0.015	0.030	0.070	0.080	0.080	0.110	0.000	0.056	0.027
Ethane	56	2.243	3.337	4.307	5.367	6.849	14.668	1.144	4.576	2.109
Ethylbenzene	56	0.433	0.890	1.665	2.240	2.565	5.470	0.400	1.704	1.034
Ethylbromide	56	0.000	0.000	0.040	0.050	0.050	0.060	0.000	0.027	0.022
Ethylene	56	1.760	2.908	3.676	5.208	7.609	10.483	1.322	4.230	2.093
Freon11	56	1.620	1.735	1.808	1.923	2.025	2.400	1.280	1.836	0.193
Freon113	51	0.601	0.806	0.860	0.910	0.967	1.370	0.490	0.858	0.124
Freon114	56	0.150	0.170	0.260	0.280	0.295	0.340	0.150	0.237	0.055
Freon12	56	2.528	2.738	2.862	3.063	3.545	3.920	2.330	2.946	0.339
Freon22	56	0.528	0.705	0.915	1.100	1.360	2.480	0.490	0.966	0.380
Heptane	56	0.230	0.358	0.495	0.698	1.060	1.500	0.200	0.588	0.319
Hexachlorobutadiene	56	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.001	0.005
Hexane	56	0.483	0.780	1.030	1.565	2.039	3.700	0.390	1.217	0.693
Hexylbenzene	49	0.000	0.000	0.000	0.040	0.060	0.090	0.000	0.021	0.027
Indane	56	0.050	0.080	0.120	0.170	0.220	0.330	0.030	0.130	0.066
Isobutane	56	0.950	1.388	2.394	4.973	7.705	19.790	0.730	3.757	3.739
iso-Butylbenzene	56	0.020	0.030	0.040	0.050	0.070	0.090	0.010	0.041	0.019
Isopentane	56	1.865	2.440	4.265	5.835	7.245	13.030	1.150	4.595	2.400
Isoprene	52	0.076	0.120	0.210	0.260	0.449	0.850	0.050	0.233	0.165

Table 40 VOC Annual Statistics at Etobicoke South (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
iso-Propylbenzene	56	0.038	0.060	0.090	0.110	0.140	0.200	0.030	0.090	0.041
m and p-Xylene	56	1.248	2.795	5.465	7.463	9.086	20.650	1.100	5.679	3.816
Methylcyclohexane	56	0.100	0.190	0.270	0.365	0.665	1.410	0.100	0.340	0.238
Methylcyclopentane	56	0.188	0.325	0.453	0.673	0.945	1.610	0.170	0.546	0.322
Naphthalene	28	0.234	0.258	0.360	0.447	0.587	0.780	0.090	0.382	0.160
n-Butylbenzene	56	0.030	0.040	0.060	0.090	0.120	0.210	0.020	0.071	0.039
Nonane	56	0.120	0.220	0.395	0.590	0.775	1.220	0.090	0.430	0.260
n-Propylbenzene	56	0.085	0.135	0.215	0.301	0.415	0.610	0.060	0.237	0.133
Octane	56	0.118	0.190	0.265	0.453	0.655	1.200	0.090	0.349	0.235
o-Xylene	56	0.403	0.893	1.430	2.058	2.466	4.100	0.300	1.553	0.875
p-Cymene	56	0.028	0.040	0.060	0.100	0.130	0.220	0.000	0.074	0.045
Pentane	56	1.093	1.503	2.675	3.253	4.170	7.060	0.740	2.662	1.314
Propane	56	2.355	3.615	5.910	7.433	10.805	14.110	2.050	6.076	3.077
Propylene	56	0.583	0.900	1.110	1.468	2.095	3.140	0.440	1.281	0.584
sec-Butylbenzene	56	0.020	0.030	0.040	0.060	0.080	0.110	0.010	0.046	0.022
Styrene	52	0.000	0.260	1.315	7.238	12.769	19.740	0.000	4.114	5.285
tert-Butylbenzene	56	0.000	0.000	0.015	0.040	0.040	0.050	0.000	0.018	0.018
Tetrachloroethylene	56	0.268	0.443	0.820	1.340	1.975	7.110	0.130	1.171	1.241
Toluene	56	1.995	4.205	6.020	9.883	13.220	26.560	1.280	7.509	5.135
trans-1,2-Dichloroethylen	54	0.000	0.000	0.030	0.040	0.050	0.060	0.000	0.027	0.021
trans-1,2-Dimethylcycloh	56	0.028	0.060	0.080	0.150	0.240	0.360	0.000	0.110	0.082
trans-1,3-Dichloropropen	56	0.000	0.000	0.000	0.020	0.030	0.060	0.000	0.011	0.015
trans-1,4-Dimethylcycloh	56	0.020	0.039	0.050	0.083	0.150	0.270	0.010	0.070	0.053
trans-2-Butene	56	0.100	0.150	0.225	0.323	0.425	0.600	0.070	0.252	0.128
trans-2-Heptene	56	0.000	0.000	0.040	0.050	0.060	0.110	0.000	0.032	0.025
trans-2-Hexene	56	0.020	0.030	0.050	0.079	0.100	0.150	0.000	0.057	0.031
trans-2-Octene	20	0.000	0.000	0.000	0.030	0.052	0.380	0.000	0.032	0.085
trans-2-Pentene	56	0.050	0.090	0.180	0.260	0.370	0.590	0.040	0.189	0.120
trans-3-Heptene	56	0.000	0.000	0.000	0.002	0.010	0.020	0.000	0.003	0.006
trans-3-Methyl-2-pentene	56	0.000	0.000	0.000	0.053	0.080	0.130	0.000	0.030	0.036
trans-4-Methyl-2-pentene	56	0.000	0.000	0.000	0.000	0.020	0.150	0.000	0.011	0.032
Trichloroethylene	56	0.120	0.210	0.370	0.600	0.875	1.340	0.070	0.445	0.314
Undecane	56	0.128	0.238	0.415	0.593	0.845	1.680	0.070	0.461	0.307
Vinylchloride	56	0.000	0.020	0.030	0.040	0.040	0.070	0.000	0.028	0.015

Note: VOC sites are operated by Environment Canada.

Table 41 VOC Annual Statistics at Etobicoke West (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	27	0.336	0.355	0.380	0.390	0.416	0.450	0.260	0.375	0.036
1,1,2,2-Tetrachloroethane	27	0.000	0.020	0.030	0.040	0.060	0.070	0.000	0.031	0.021
1,1,2-Trichloroethane	27	0.000	0.000	0.020	0.030	0.054	0.060	0.000	0.020	0.022
1,1-Dichloroethane	27	0.000	0.000	0.000	0.025	0.044	0.060	0.000	0.013	0.020
1,1-Dichloroethylene	27	0.006	0.030	0.030	0.040	0.090	0.100	0.000	0.042	0.027
1,2,3-Trimethylbenzene	27	0.043	0.065	0.140	0.170	0.240	0.490	0.010	0.145	0.103
1,2,4-Trichlorobenzene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	27	0.151	0.265	0.450	0.781	0.922	2.170	0.020	0.564	0.454
1,2-Dichlorobenzene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	27	0.054	0.060	0.070	0.075	0.100	0.150	0.050	0.074	0.021
1,2-Dichloropropane	27	0.000	0.000	0.000	0.000	0.038	0.060	0.000	0.007	0.018
1,2-Diethylbenzene	27	0.010	0.015	0.020	0.030	0.040	0.050	0.000	0.024	0.012
1,3,5-Trimethylbenzene	27	0.043	0.090	0.140	0.250	0.304	0.720	0.010	0.184	0.152
1,3-Butadiene	27	0.062	0.105	0.150	0.215	0.291	0.550	0.050	0.177	0.112
1,3-Dichlorobenzene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	27	0.019	0.020	0.040	0.065	0.070	0.110	0.010	0.044	0.025
1,4-Dichlorobenzene	27	0.041	0.066	0.090	0.130	0.170	0.270	0.030	0.105	0.059
1,4-Dichlorobutane	27	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.001	0.006
1,4-Diethylbenzene	27	0.043	0.055	0.100	0.180	0.248	0.280	0.020	0.122	0.079
1-Butene/Isobutene	27	0.299	0.462	0.630	0.990	1.254	2.120	0.190	0.761	0.449
1-Butyne	27	0.000	0.000	0.000	0.000	0.030	0.040	0.000	0.005	0.013
1-Decene	6	0.000	0.000	0.015	0.045	0.070	0.090	0.000	0.028	0.037
1-Heptene	6	0.038	0.095	0.120	0.160	0.180	0.190	0.020	0.118	0.061
1-Hexene	27	0.063	0.145	0.190	0.245	0.270	0.400	0.000	0.186	0.083
1-Methylcyclohexene	27	0.006	0.035	0.050	0.070	0.070	0.130	0.000	0.050	0.027
1-Methylcyclopentene	27	0.022	0.032	0.050	0.075	0.096	0.260	0.020	0.063	0.048
1-Nonene	6	0.000	0.000	0.000	0.023	0.040	0.050	0.000	0.013	0.022
1-Octene	6	0.000	0.000	0.010	0.035	0.045	0.050	0.000	0.018	0.022
1-Pentene	27	0.063	0.100	0.150	0.200	0.260	0.420	0.058	0.163	0.084
1-Propyne	24	0.040	0.075	0.095	0.133	0.164	0.300	0.030	0.109	0.062
2,2,3-Trimethylbutane	27	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.002	0.007
2,2,4-Trimethylpentane	27	0.123	0.195	0.338	0.575	0.719	1.420	0.110	0.435	0.302
2,2,5-Trimethylhexane	27	0.010	0.020	0.030	0.050	0.056	0.090	0.010	0.036	0.020
2,2-Dimethylbutane	27	0.080	0.095	0.150	0.210	0.262	0.320	0.070	0.158	0.075
2,2-Dimethylhexane	27	0.010	0.011	0.020	0.035	0.044	0.060	0.000	0.026	0.015
2,2-Dimethylpentane	27	0.006	0.030	0.040	0.060	0.094	0.100	0.000	0.044	0.028
2,2-Dimethylpropane	27	0.030	0.034	0.048	0.070	0.090	0.120	0.020	0.054	0.025

Table 41 VOC Annual Statistics at Etobicoke West (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	27	0.050	0.075	0.130	0.220	0.262	0.530	0.050	0.164	0.110
2,3-Dimethylbutane	27	0.093	0.140	0.180	0.372	0.498	0.760	0.090	0.273	0.177
2,3-Dimethylpentane	27	0.083	0.120	0.230	0.300	0.368	0.700	0.080	0.245	0.153
2,4-Dimethylhexane	27	0.033	0.055	0.100	0.130	0.154	0.270	0.030	0.105	0.061
2,4-Dimethylpentane	27	0.040	0.060	0.104	0.170	0.201	0.390	0.030	0.124	0.081
2,5-Dimethylhexane	27	0.033	0.049	0.080	0.110	0.124	0.230	0.020	0.086	0.049
2-Ethyl-1-Butene	27	0.000	0.010	0.020	0.030	0.040	0.060	0.000	0.020	0.016
2-Ethyltoluene	27	0.050	0.075	0.130	0.205	0.248	0.540	0.010	0.156	0.113
2-Methyl-1-butene	27	0.015	0.080	0.130	0.260	0.394	0.450	0.000	0.178	0.128
2-Methyl-2-butene	27	0.092	0.140	0.250	0.425	0.520	1.250	0.060	0.318	0.261
2-Methylheptane	27	0.065	0.115	0.190	0.275	0.494	0.770	0.050	0.244	0.192
2-Methylhexane	27	0.150	0.200	0.440	0.595	0.632	1.280	0.140	0.438	0.292
2-Methylpentane	27	0.406	0.575	0.820	1.503	1.866	3.150	0.350	1.091	0.689
3,6-Dimethyloctane	27	0.000	0.000	0.030	0.040	0.060	0.090	0.000	0.026	0.026
3-Ethyltoluene	27	0.100	0.160	0.270	0.470	0.557	1.360	0.020	0.353	0.286
3-Methyl-1-pentene	27	0.000	0.000	0.000	0.000	0.044	0.070	0.000	0.009	0.020
3-Methylheptane	27	0.060	0.095	0.180	0.269	0.412	0.540	0.050	0.203	0.137
3-Methylhexane	27	0.160	0.226	0.432	0.656	0.826	1.550	0.130	0.512	0.362
3-Methylpentane	27	0.260	0.395	0.570	0.985	1.234	2.100	0.240	0.725	0.446
4-Ethyltoluene	27	0.060	0.085	0.160	0.240	0.320	0.700	0.020	0.190	0.144
4-Methyl-1-pentene	27	0.000	0.000	0.000	0.000	0.040	0.070	0.000	0.009	0.021
4-Methylheptane	27	0.023	0.041	0.070	0.120	0.176	0.250	0.000	0.088	0.063
Acetylene	27	0.970	1.192	1.631	2.804	3.353	5.332	0.813	2.039	1.101
Benzene	27	0.581	0.735	1.300	1.635	2.132	3.910	0.540	1.350	0.766
Benzylchloride	27	0.020	0.030	0.030	0.040	0.060	0.070	0.020	0.036	0.015
Bromodichloromethane	9	0.000	0.000	0.060	0.090	0.110	0.110	0.000	0.056	0.047
Bromoform	27	0.030	0.030	0.040	0.050	0.060	0.070	0.030	0.041	0.014
Bromomethane	27	0.095	0.100	0.110	0.135	0.210	0.240	0.090	0.129	0.045
Butane	27	1.862	2.620	4.260	7.440	9.838	22.300	1.810	5.954	4.782
Carbontetrachloride	27	0.556	0.605	0.646	0.673	0.694	0.770	0.520	0.640	0.057
Chlorobenzene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	27	0.042	0.050	0.060	0.120	0.168	0.570	0.000	0.100	0.105
Chloroform	27	0.080	0.090	0.100	0.135	0.160	0.170	0.080	0.113	0.029
Chloromethane	27	1.070	1.165	1.190	1.258	1.372	1.470	1.012	1.215	0.109
cis-1,2-Dichloroethylene	27	0.000	0.000	0.020	0.030	0.050	0.060	0.000	0.020	0.020
cis-1,2-Dimethylcyclohex	24	0.000	0.000	0.020	0.050	0.060	0.060	0.000	0.025	0.025
cis-1,3-Dichloropropene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 41 VOC Annual Statistics at Etobicoke West (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dimethylcyclohex	27	0.020	0.035	0.070	0.125	0.180	0.360	0.020	0.097	0.084
cis-1,4/t-1,3-Dimethylcyc	27	0.000	0.011	0.030	0.050	0.060	0.080	0.000	0.031	0.022
cis-2-Butene	27	0.060	0.110	0.160	0.270	0.358	0.690	0.040	0.212	0.161
cis-2-Heptene	27	0.000	0.000	0.000	0.040	0.054	0.100	0.000	0.017	0.030
cis-2-Hexene	27	0.000	0.000	0.000	0.030	0.054	0.080	0.000	0.017	0.025
cis-2-Pentene	27	0.063	0.110	0.130	0.200	0.244	0.560	0.040	0.168	0.108
cis-3-Methyl-2-pentene	27	0.000	0.020	0.030	0.059	0.070	0.120	0.000	0.035	0.030
cis-4-Methyl-2-pentene	27	0.000	0.000	0.050	0.100	0.150	0.280	0.000	0.060	0.073
Cyclohexane	27	0.050	0.065	0.120	0.200	0.234	0.340	0.030	0.141	0.082
Cyclohexene	27	0.000	0.000	0.000	0.030	0.054	0.060	0.000	0.013	0.022
Cyclopentane	27	0.080	0.110	0.150	0.311	0.372	0.570	0.070	0.213	0.132
Cyclopentene	25	0.018	0.020	0.030	0.070	0.080	0.120	0.000	0.045	0.028
Decane	27	0.092	0.170	0.240	0.425	0.584	0.720	0.020	0.299	0.188
Dibromochloromethane	27	0.006	0.027	0.030	0.035	0.070	0.080	0.000	0.034	0.020
Dibromomethane	27	0.046	0.059	0.060	0.080	0.130	0.140	0.040	0.075	0.030
Dichloromethane	27	0.303	0.465	0.870	1.320	1.748	3.070	0.240	0.989	0.655
Dodecane	27	0.023	0.045	0.080	0.135	0.184	0.290	0.020	0.099	0.069
EDB	27	0.020	0.030	0.030	0.045	0.070	0.080	0.000	0.040	0.019
Ethane	27	2.858	3.246	4.174	5.497	6.089	8.719	2.759	4.488	1.463
Ethylbenzene	27	0.180	0.305	0.580	0.976	1.256	1.850	0.150	0.711	0.477
Ethylbromide	27	0.000	0.000	0.000	0.025	0.050	0.050	0.000	0.014	0.020
Ethylene	27	1.254	1.970	3.204	4.021	6.264	11.518	0.779	3.520	2.339
Freon11	27	1.623	1.678	1.758	1.875	2.038	2.200	1.610	1.799	0.163
Freon113	22	0.661	0.680	0.693	0.720	0.769	0.830	0.650	0.707	0.048
Freon114	27	0.153	0.160	0.170	0.220	0.294	0.300	0.146	0.198	0.052
Freon12	27	2.568	2.670	2.764	2.976	3.150	3.200	2.480	2.837	0.211
Freon22	27	0.493	0.591	0.660	0.775	0.934	1.030	0.476	0.692	0.148
Heptane	27	0.156	0.200	0.410	0.505	0.798	1.510	0.130	0.437	0.317
Hexachlorobutadiene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hexane	27	0.300	0.445	0.610	1.115	1.512	2.400	0.270	0.856	0.563
Hexylbenzene	27	0.000	0.000	0.000	0.000	0.004	0.040	0.000	0.002	0.008
Indane	27	0.030	0.030	0.070	0.095	0.120	0.210	0.010	0.074	0.047
Isobutane	27	0.909	1.640	2.580	3.665	5.314	7.500	0.810	2.930	1.827
iso-Butylbenzene	27	0.010	0.013	0.020	0.030	0.040	0.040	0.010	0.023	0.011
Isopentane	27	1.294	1.875	2.740	4.848	6.204	9.560	1.180	3.524	2.139
Isoprene	23	0.031	0.070	0.120	0.185	0.231	0.460	0.000	0.138	0.098
iso-Propylbenzene	27	0.020	0.030	0.050	0.068	0.080	0.130	0.020	0.053	0.026

Table 41 VOC Annual Statistics at Etobicoke West (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
m and p-Xylene	27	0.462	0.915	1.800	3.333	4.434	6.380	0.240	2.261	1.694
Methylcyclohexane	27	0.060	0.097	0.190	0.279	0.384	1.150	0.050	0.230	0.215
Methylcyclopentane	27	0.120	0.185	0.280	0.530	0.661	1.170	0.120	0.378	0.253
Naphthalene	24	0.082	0.115	0.220	0.353	0.480	0.580	0.080	0.247	0.151
n-Butylbenzene	27	0.006	0.020	0.032	0.060	0.074	0.080	0.000	0.040	0.024
Nonane	27	0.070	0.110	0.180	0.290	0.332	0.460	0.070	0.203	0.115
n-Propylbenzene	27	0.043	0.060	0.110	0.160	0.198	0.370	0.020	0.124	0.080
Octane	27	0.063	0.096	0.170	0.295	0.426	0.740	0.050	0.227	0.173
o-Xylene	27	0.165	0.300	0.530	1.040	1.446	2.180	0.110	0.735	0.571
p-Cymene	27	0.000	0.030	0.040	0.060	0.094	0.140	0.000	0.044	0.036
Pentane	27	0.803	1.300	1.890	2.740	3.518	5.650	0.780	2.110	1.144
Propane	27	1.938	2.595	3.880	5.420	6.767	8.340	1.730	4.268	1.884
Propylene	27	0.300	0.475	0.750	1.085	1.485	2.920	0.200	0.890	0.592
sec-Butylbenzene	27	0.010	0.017	0.024	0.035	0.040	0.050	0.000	0.025	0.013
Styrene	23	0.000	0.050	0.290	0.570	0.932	8.240	0.000	0.657	1.682
tert-Butylbenzene	27	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.002	0.008
Tetrachloroethylene	27	0.160	0.218	0.482	0.800	1.664	2.790	0.140	0.714	0.656
Toluene	27	1.219	2.295	3.250	5.695	8.748	12.200	0.740	4.301	2.942
trans-1,2-Dichloroethylen	25	0.000	0.000	0.000	0.020	0.020	0.050	0.000	0.010	0.014
trans-1,2-Dimethylcycloh	27	0.000	0.027	0.050	0.085	0.124	0.210	0.000	0.062	0.054
trans-1,3-Dichloropropen	27	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.001	0.004
trans-1,4-Dimethylcycloh	27	0.010	0.020	0.032	0.055	0.090	0.160	0.010	0.044	0.038
trans-2-Butene	27	0.059	0.110	0.180	0.284	0.426	0.760	0.040	0.233	0.181
trans-2-Heptene	27	0.000	0.000	0.000	0.030	0.044	0.060	0.000	0.015	0.020
trans-2-Hexene	27	0.000	0.020	0.020	0.055	0.064	0.120	0.000	0.035	0.028
trans-2-Octene	21	0.000	0.000	0.000	0.040	0.070	0.120	0.000	0.020	0.035
trans-2-Pentene	27	0.032	0.040	0.060	0.180	0.270	0.310	0.024	0.122	0.096
trans-3-Heptene	27	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.002
trans-3-Methyl-2-pentene	27	0.000	0.000	0.000	0.010	0.050	0.100	0.000	0.014	0.027
trans-4-Methyl-2-pentene	27	0.000	0.000	0.000	0.000	0.088	0.220	0.000	0.019	0.050
Trichloroethylene	27	0.090	0.132	0.220	0.440	0.656	0.910	0.070	0.314	0.231
Undecane	27	0.049	0.115	0.200	0.285	0.410	0.520	0.010	0.218	0.137
Vinylchloride	27	0.000	0.010	0.020	0.030	0.040	0.050	0.000	0.020	0.014

Note: VOC sites are operated by Environment Canada.

Table 42 VOC Annual Statistics at Hamilton (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	56	0.278	0.390	0.420	0.460	0.544	0.690	0.260	0.426	0.086
1,1,2,2-Tetrachloroethane	56	0.015	0.030	0.060	0.070	0.075	0.090	0.000	0.050	0.022
1,1,2-Trichloroethane	56	0.000	0.020	0.050	0.060	0.070	0.090	0.000	0.043	0.028
1,1-Dichloroethane	56	0.000	0.000	0.040	0.050	0.058	0.080	0.000	0.030	0.023
1,1-Dichloroethylene	56	0.028	0.036	0.070	0.080	0.095	0.110	0.000	0.063	0.028
1,2,3-Trimethylbenzene	56	0.078	0.110	0.160	0.268	0.530	1.010	0.050	0.246	0.212
1,2,4-Trichlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	56	0.243	0.390	0.625	1.145	2.469	4.230	0.160	1.026	0.968
1,2-Dichlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	56	0.046	0.070	0.080	0.090	0.100	0.130	0.000	0.078	0.022
1,2-Dichloropropane	56	0.000	0.000	0.000	0.050	0.050	0.150	0.000	0.020	0.029
1,2-Diethylbenzene	56	0.000	0.020	0.030	0.040	0.055	0.080	0.000	0.031	0.018
1,3,5-Trimethylbenzene	56	0.080	0.130	0.205	0.405	0.830	1.470	0.050	0.342	0.328
1,3-Butadiene	56	0.078	0.100	0.140	0.225	0.410	0.600	0.050	0.191	0.135
1,3-Dichlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	56	0.030	0.040	0.060	0.083	0.145	0.260	0.020	0.074	0.051
1,4-Dichlorobenzene	56	0.078	0.118	0.175	0.240	0.440	1.120	0.060	0.227	0.197
1,4-Dichlorobutane	56	0.000	0.000	0.000	0.023	0.040	0.580	0.000	0.020	0.078
1,4-Diethylbenzene	56	0.068	0.100	0.140	0.243	0.432	0.800	0.040	0.200	0.158
1-Butene/Isobutene	56	0.313	0.428	0.550	0.983	1.865	3.380	0.260	0.863	0.665
1-Butyne	56	0.000	0.000	0.000	0.030	0.040	0.050	0.000	0.013	0.017
1-Decene	39	0.000	0.000	0.050	0.080	0.120	0.370	0.000	0.056	0.075
1-Heptene	39	0.054	0.105	0.140	0.275	0.412	0.920	0.000	0.209	0.180
1-Hexene	56	0.088	0.184	0.235	0.298	0.425	1.170	0.060	0.266	0.171
1-Methylcyclohexene	56	0.028	0.050	0.070	0.083	0.098	0.240	0.000	0.070	0.036
1-Methylcyclopentene	56	0.030	0.050	0.070	0.103	0.189	0.300	0.000	0.093	0.068
1-Nonene	39	0.000	0.000	0.000	0.010	0.068	0.300	0.000	0.022	0.055
1-Octene	39	0.000	0.015	0.040	0.060	0.080	0.300	0.000	0.046	0.051
1-Pentene	56	0.068	0.110	0.160	0.300	0.480	1.110	0.040	0.230	0.194
1-Propyne	53	0.024	0.070	0.090	0.130	0.240	0.340	0.000	0.109	0.075
2,2,3-Trimethylbutane	56	0.000	0.000	0.000	0.000	0.025	0.110	0.000	0.007	0.019
2,2,4-Trimethylpentane	56	0.175	0.340	0.530	0.915	1.545	4.130	0.130	0.788	0.800
2,2,5-Trimethylhexane	56	0.010	0.030	0.040	0.063	0.100	0.240	0.010	0.056	0.049
2,2-Dimethylbutane	56	0.080	0.140	0.230	0.305	0.485	0.880	0.070	0.261	0.175
2,2-Dimethylhexane	56	0.010	0.020	0.030	0.050	0.070	0.130	0.000	0.039	0.025
2,2-Dimethylpentane	56	0.010	0.040	0.060	0.090	0.130	0.360	0.000	0.074	0.060
2,2-Dimethylpropane	56	0.030	0.049	0.060	0.080	0.100	0.150	0.020	0.065	0.028

Table 42 VOC Annual Statistics at Hamilton (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	56	0.070	0.120	0.180	0.313	0.525	1.350	0.050	0.274	0.271
2,3-Dimethylbutane	56	0.125	0.228	0.345	0.603	1.015	2.150	0.070	0.483	0.416
2,3-Dimethylpentane	56	0.108	0.190	0.275	0.548	0.925	1.730	0.090	0.418	0.361
2,4-Dimethylhexane	56	0.050	0.080	0.120	0.193	0.300	0.690	0.040	0.163	0.140
2,4-Dimethylpentane	56	0.050	0.090	0.150	0.273	0.360	0.930	0.040	0.205	0.176
2,5-Dimethylhexane	56	0.040	0.060	0.090	0.153	0.245	0.570	0.030	0.126	0.109
2-Ethyl-1-Butene	56	0.000	0.010	0.026	0.050	0.105	0.190	0.000	0.039	0.043
2-Ethyltoluene	56	0.070	0.110	0.165	0.300	0.575	1.030	0.050	0.257	0.219
2-Methyl-1-butene	56	0.080	0.128	0.195	0.350	0.745	1.250	0.070	0.294	0.265
2-Methyl-2-butene	56	0.108	0.178	0.285	0.525	0.990	1.860	0.090	0.447	0.428
2-Methylheptane	56	0.080	0.118	0.180	0.320	0.615	1.340	0.050	0.278	0.255
2-Methylhexane	56	0.170	0.296	0.394	0.980	1.365	2.680	0.120	0.660	0.590
2-Methylpentane	56	0.500	0.870	1.435	2.561	5.395	9.250	0.340	2.166	2.011
3,6-Dimethyloctane	56	0.000	0.000	0.030	0.060	0.085	0.190	0.000	0.038	0.042
3-Ethyltoluene	56	0.160	0.248	0.380	0.755	1.395	2.620	0.110	0.625	0.571
3-Methyl-1-pentene	56	0.000	0.000	0.035	0.063	0.095	0.140	0.000	0.038	0.040
3-Methylheptane	56	0.060	0.100	0.150	0.295	0.550	1.190	0.000	0.246	0.238
3-Methylhexane	56	0.000	0.260	0.436	0.813	1.335	2.800	0.000	0.658	0.632
3-Methylpentane	56	0.355	0.618	1.015	2.224	6.875	12.080	0.250	2.276	2.891
4-Ethyltoluene	56	0.090	0.150	0.220	0.378	0.705	1.440	0.060	0.332	0.289
4-Methyl-1-pentene	56	0.000	0.000	0.035	0.060	0.080	0.250	0.000	0.037	0.045
4-Methylheptane	56	0.028	0.050	0.070	0.143	0.255	0.530	0.000	0.111	0.104
Acetylene	56	0.902	1.348	2.062	2.909	4.457	8.756	0.806	2.441	1.550
Benzene	56	0.545	0.768	1.225	2.150	5.430	14.750	0.440	2.142	2.482
Benzylchloride	56	0.030	0.038	0.050	0.060	0.060	0.070	0.020	0.047	0.013
Bromodichloromethane	41	0.060	0.090	0.100	0.130	0.200	0.330	0.000	0.114	0.062
Bromoform	56	0.030	0.040	0.060	0.070	0.080	0.110	0.020	0.056	0.019
Bromomethane	56	0.093	0.118	0.160	0.183	0.200	0.250	0.076	0.153	0.042
Bromotrichloromethane	3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Butane	56	1.408	2.063	3.655	7.598	11.505	34.490	0.860	5.874	6.266
Carbontetrachloride	56	0.328	0.570	0.647	0.680	0.700	0.760	0.300	0.599	0.121
Chlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	56	0.050	0.070	0.090	0.103	0.130	0.750	0.000	0.100	0.094
Chloroform	56	0.080	0.100	0.135	0.170	0.205	0.470	0.070	0.149	0.077
Chloromethane	56	0.918	1.098	1.170	1.250	1.300	1.680	0.870	1.173	0.153
cis-1,2-Dichloroethylene	56	0.000	0.020	0.045	0.050	0.052	0.060	0.000	0.037	0.019
cis-1,2-Dimethylcyclohexa	53	0.020	0.030	0.050	0.060	0.090	0.170	0.000	0.051	0.030

Table 42 VOC Annual Statistics at Hamilton (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dichloropropene	56	0.000	0.000	0.000	0.000	0.025	0.170	0.000	0.010	0.031
cis-1,3-Dimethylcyclohexa	54	0.020	0.043	0.070	0.110	0.240	0.680	0.020	0.109	0.116
cis-1,4/t-1,3-Dimethylcycl	56	0.010	0.020	0.030	0.047	0.110	0.250	0.000	0.044	0.044
cis-2-Butene	56	0.078	0.100	0.155	0.285	0.586	1.300	0.070	0.254	0.244
cis-2-Heptene	56	0.000	0.000	0.015	0.050	0.070	0.340	0.000	0.034	0.052
cis-2-Hexene	56	0.000	0.000	0.035	0.070	0.130	0.220	0.000	0.050	0.057
cis-2-Pentene	56	0.060	0.110	0.140	0.280	0.440	0.710	0.050	0.214	0.168
cis-3-Methyl-2-pentene	56	0.000	0.030	0.050	0.080	0.160	0.260	0.000	0.066	0.058
cis-4-Methyl-2-pentene	56	0.000	0.000	0.000	0.091	0.215	0.510	0.000	0.069	0.113
Cyclohexane	56	0.038	0.098	0.165	0.286	0.410	0.720	0.000	0.206	0.152
Cyclohexene	56	0.000	0.000	0.035	0.060	0.080	0.160	0.000	0.036	0.040
Cyclopentane	56	0.080	0.160	0.260	0.413	0.740	1.550	0.060	0.353	0.300
Cyclopentene	56	0.020	0.040	0.060	0.084	0.150	0.220	0.020	0.076	0.051
Decane	56	0.108	0.168	0.250	0.573	0.970	1.810	0.060	0.436	0.409
Dibromochloromethane	48	0.020	0.030	0.070	0.078	0.083	0.140	0.000	0.059	0.029
Dibromomethane	56	0.048	0.068	0.115	0.130	0.145	0.200	0.000	0.102	0.041
Dichloromethane	56	0.705	0.945	1.115	1.573	2.425	6.500	0.680	1.466	0.986
Dodecane	56	0.056	0.078	0.115	0.203	0.363	0.578	0.040	0.164	0.130
EDB	56	0.015	0.030	0.060	0.070	0.080	0.090	0.000	0.056	0.024
Ethane	56	2.529	3.534	4.753	7.122	11.008	18.033	1.735	6.016	3.748
Ethylbenzene	56	0.280	0.428	0.630	1.629	2.365	4.430	0.170	1.104	1.022
Ethylbromide	56	0.000	0.000	0.030	0.040	0.050	0.060	0.000	0.024	0.020
Ethylene	56	1.123	1.744	2.698	5.252	9.451	17.005	0.327	4.059	3.438
Freon11	56	1.480	1.712	1.850	2.008	2.610	3.980	1.190	1.976	0.472
Freon113	56	4.888	8.463	10.010	12.608	16.950	20.350	3.030	10.731	3.910
Freon114	56	0.158	0.178	0.255	0.280	0.295	0.329	0.140	0.233	0.056
Freon12	56	2.558	2.770	2.966	3.263	3.729	5.260	2.070	3.096	0.555
Freon22	56	0.550	0.650	0.885	1.135	1.430	2.220	0.480	0.972	0.422
Heptane	56	0.175	0.288	0.440	0.827	1.335	2.950	0.110	0.644	0.582
Hexachlorobutadiene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hexane	56	0.340	0.766	1.310	3.023	11.125	27.850	0.270	4.070	6.475
Hexylbenzene	50	0.000	0.000	0.000	0.030	0.051	0.110	0.000	0.020	0.028
Indane	56	0.040	0.070	0.095	0.173	0.285	0.480	0.030	0.138	0.105
Isobutane	56	0.645	1.018	1.725	3.263	5.594	21.830	0.420	2.838	3.381
iso-Butylbenzene	56	0.016	0.020	0.030	0.041	0.060	0.110	0.010	0.036	0.019
Isopentane	56	1.355	2.500	3.595	7.225	11.715	19.670	0.930	5.530	4.751
Isoprene	52	0.046	0.086	0.160	0.261	0.369	0.670	0.040	0.197	0.147

Table 42 VOC Annual Statistics at Hamilton (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
iso-Propylbenzene	56	0.030	0.050	0.060	0.097	0.145	0.240	0.020	0.079	0.048
m and p-Xylene	56	0.698	1.118	1.620	5.260	8.090	14.960	0.410	3.338	3.411
Methylcyclohexane	56	0.075	0.130	0.195	0.383	0.680	1.740	0.040	0.319	0.326
Methylcyclopentane	56	0.158	0.300	0.435	0.993	2.755	5.060	0.120	0.952	1.135
Naphthalene	29	0.144	0.270	0.450	1.900	4.102	33.460	0.070	2.482	6.295
n-Butylbenzene	56	0.020	0.033	0.050	0.070	0.125	0.240	0.020	0.064	0.042
Nonane	56	0.078	0.120	0.205	0.411	0.620	1.050	0.060	0.299	0.252
n-Propylbenzene	56	0.068	0.108	0.160	0.255	0.450	0.830	0.050	0.213	0.170
Octane	56	0.065	0.128	0.200	0.327	0.705	1.530	0.050	0.293	0.279
o-Xylene	56	0.228	0.340	0.547	1.460	1.980	3.630	0.140	0.948	0.872
p-Cymene	56	0.000	0.040	0.070	0.113	0.140	0.240	0.000	0.078	0.054
Pentane	56	0.848	1.453	2.040	4.105	5.740	10.270	0.600	2.998	2.432
Propane	56	1.653	2.355	3.830	5.453	8.415	15.670	1.270	4.560	2.976
Propylene	56	0.390	0.501	0.665	1.290	2.370	4.890	0.260	1.087	0.920
sec-Butylbenzene	56	0.018	0.020	0.040	0.049	0.070	0.120	0.000	0.040	0.023
Styrene	52	0.017	0.080	0.120	0.305	0.486	0.790	0.000	0.200	0.174
tert-Butylbenzene	56	0.000	0.000	0.000	0.020	0.040	0.060	0.000	0.012	0.017
Tetrachloroethylene	56	0.170	0.320	0.665	1.618	2.595	5.610	0.100	1.143	1.207
Toluene	56	1.515	1.908	3.745	8.213	16.275	75.810	0.850	7.710	11.492
trans-1,2-Dichloroethylene	56	0.000	0.000	0.030	0.040	0.050	0.070	0.000	0.027	0.020
trans-1,2-Dimethylcyclohe	56	0.000	0.010	0.040	0.080	0.200	0.430	0.000	0.069	0.087
trans-1,3-Dichloropropene	56	0.000	0.000	0.000	0.020	0.030	0.160	0.000	0.017	0.034
trans-1,4-Dimethylcyclohe	56	0.010	0.020	0.030	0.049	0.110	0.250	0.000	0.045	0.045
trans-2-Butene	56	0.088	0.118	0.169	0.290	0.630	1.590	0.070	0.279	0.286
trans-2-Heptene	56	0.000	0.000	0.025	0.050	0.065	0.260	0.000	0.030	0.043
trans-2-Hexene	56	0.000	0.030	0.050	0.090	0.165	0.250	0.000	0.069	0.062
trans-2-Octene	17	0.000	0.000	0.000	0.010	0.036	0.260	0.000	0.022	0.063
trans-2-Pentene	56	0.048	0.080	0.145	0.285	0.645	1.120	0.030	0.245	0.254
trans-3-Heptene	56	0.000	0.000	0.000	0.010	0.020	0.070	0.000	0.006	0.013
trans-3-Methyl-2-pentene	56	0.000	0.000	0.020	0.060	0.130	0.240	0.000	0.044	0.058
trans-4-Methyl-2-pentene	56	0.000	0.000	0.000	0.000	0.050	0.228	0.000	0.016	0.045
Trichloroethylene	56	0.050	0.090	0.130	0.223	0.575	1.240	0.030	0.235	0.275
Undecane	56	0.118	0.150	0.230	0.514	0.865	1.820	0.050	0.397	0.378
Vinylchloride	56	0.000	0.020	0.030	0.030	0.030	0.040	0.000	0.023	0.011

Note: VOC sites are operated by Environment Canada.

Table 43 VOC Annual Statistics at Kingston (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	27	0.343	0.360	0.390	0.410	0.448	0.710	0.330	0.403	0.075
1,1,2,2-Tetrachloroethane	27	0.000	0.020	0.030	0.050	0.070	0.080	0.000	0.036	0.023
1,1,2-Trichloroethane	27	0.000	0.000	0.030	0.055	0.078	0.100	0.000	0.031	0.034
1,1-Dichloroethane	27	0.000	0.000	0.000	0.040	0.044	0.060	0.000	0.017	0.021
1,1-Dichloroethylene	27	0.000	0.020	0.036	0.075	0.080	0.090	0.000	0.044	0.032
1,2,3-Trimethylbenzene	27	0.060	0.080	0.100	0.135	0.208	0.270	0.050	0.119	0.057
1,2,4-Trichlorobenzene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	27	0.193	0.258	0.350	0.475	0.684	0.950	0.180	0.410	0.202
1,2-Dichlorobenzene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	27	0.056	0.065	0.070	0.080	0.084	0.110	0.050	0.073	0.013
1,2-Dichloropropane	27	0.000	0.000	0.000	0.000	0.034	0.070	0.000	0.007	0.018
1,2-Diethylbenzene	27	0.000	0.020	0.020	0.030	0.030	0.050	0.000	0.021	0.011
1,3,5-Trimethylbenzene	27	0.063	0.086	0.120	0.154	0.224	0.290	0.050	0.133	0.064
1,3-Butadiene	27	0.060	0.070	0.090	0.138	0.166	0.310	0.030	0.108	0.059
1,3-Dichlorobenzene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	27	0.020	0.030	0.030	0.041	0.064	0.080	0.020	0.038	0.016
1,4-Dichlorobenzene	27	0.040	0.075	0.090	0.130	0.218	0.780	0.040	0.140	0.165
1,4-Dichlorobutane	27	0.000	0.000	0.000	0.000	0.004	0.030	0.000	0.002	0.007
1,4-Diethylbenzene	27	0.060	0.070	0.090	0.110	0.166	0.230	0.040	0.102	0.046
1-Butene/Isobutene	27	0.270	0.315	0.400	0.530	0.618	1.450	0.230	0.461	0.239
1-Butyne	27	0.000	0.000	0.000	0.000	0.024	0.060	0.000	0.006	0.015
1-Decene	12	0.000	0.000	0.020	0.070	0.097	0.580	0.000	0.077	0.163
1-Heptene	12	0.000	0.075	0.115	0.193	0.227	0.280	0.000	0.128	0.089
1-Hexene	27	0.096	0.145	0.180	0.240	0.260	0.290	0.000	0.182	0.064
1-Methylcyclohexene	27	0.030	0.035	0.040	0.060	0.074	0.100	0.020	0.048	0.019
1-Methylcyclopentene	27	0.040	0.050	0.060	0.072	0.080	0.130	0.040	0.063	0.020
1-Nonene	11	0.000	0.000	0.000	0.025	0.040	0.050	0.000	0.013	0.019
1-Octene	11	0.015	0.030	0.060	0.070	0.100	0.100	0.000	0.055	0.031
1-Pentene	27	0.081	0.110	0.130	0.150	0.214	0.280	0.060	0.141	0.055
1-Propyne	25	0.022	0.040	0.060	0.090	0.116	0.750	0.000	0.091	0.142
2,2,3-Trimethylbutane	27	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.001	0.004
2,2,4-Trimethylpentane	27	0.106	0.170	0.248	0.355	0.474	0.810	0.070	0.283	0.158
2,2,5-Trimethylhexane	27	0.003	0.020	0.020	0.033	0.044	0.070	0.000	0.026	0.016
2,2-Dimethylbutane	27	0.093	0.125	0.150	0.187	0.272	0.350	0.060	0.167	0.068
2,2-Dimethylhexane	27	0.010	0.014	0.020	0.030	0.044	0.060	0.000	0.024	0.014
2,2-Dimethylpentane	27	0.006	0.030	0.036	0.050	0.060	0.090	0.000	0.038	0.020
2,2-Dimethylpropane	27	0.023	0.031	0.040	0.050	0.064	0.070	0.020	0.044	0.014

Table 43 VOC Annual Statistics at Kingston (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	27	0.040	0.070	0.090	0.145	0.173	0.330	0.030	0.112	0.062
2,3-Dimethylbutane	27	0.086	0.152	0.190	0.240	0.328	0.530	0.080	0.213	0.104
2,3-Dimethylpentane	27	0.073	0.120	0.160	0.220	0.254	0.540	0.050	0.177	0.095
2,4-Dimethylhexane	27	0.040	0.050	0.064	0.090	0.130	0.210	0.040	0.081	0.040
2,4-Dimethylpentane	27	0.009	0.060	0.080	0.125	0.148	0.200	0.000	0.089	0.049
2,5-Dimethylhexane	27	0.033	0.044	0.060	0.090	0.100	0.170	0.020	0.069	0.032
2-Ethyl-1-Butene	27	0.000	0.010	0.020	0.020	0.030	0.060	0.000	0.017	0.014
2-Ethyltoluene	27	0.060	0.077	0.100	0.140	0.172	0.250	0.050	0.113	0.050
2-Methyl-1-butene	27	0.024	0.100	0.120	0.185	0.236	0.670	0.000	0.161	0.131
2-Methyl-2-butene	27	0.123	0.177	0.210	0.302	0.384	0.670	0.110	0.247	0.122
2-Methylheptane	27	0.080	0.100	0.130	0.210	0.248	0.410	0.070	0.160	0.080
2-Methylhexane	27	0.136	0.239	0.280	0.370	0.525	0.890	0.110	0.325	0.168
2-Methylpentane	27	0.394	0.585	0.750	0.965	1.184	2.380	0.370	0.840	0.410
3,6-Dimethyloctane	27	0.000	0.010	0.030	0.040	0.054	0.130	0.000	0.030	0.029
3-Ethyltoluene	27	0.133	0.170	0.220	0.311	0.412	0.600	0.110	0.258	0.124
3-Methyl-1-pentene	27	0.000	0.000	0.000	0.000	0.050	0.090	0.000	0.013	0.026
3-Methylheptane	27	0.073	0.100	0.130	0.205	0.240	0.380	0.060	0.152	0.075
3-Methylhexane	27	0.153	0.239	0.340	0.420	0.568	1.060	0.140	0.362	0.196
3-Methylpentane	27	0.293	0.420	0.510	0.670	0.904	1.620	0.260	0.587	0.297
4-Ethyltoluene	27	0.080	0.105	0.120	0.170	0.234	0.310	0.080	0.147	0.065
4-Methyl-1-pentene	27	0.000	0.000	0.000	0.035	0.054	0.080	0.000	0.016	0.027
4-Methylheptane	27	0.030	0.040	0.050	0.080	0.104	0.190	0.000	0.064	0.038
Acetylene	27	0.589	1.123	1.362	1.863	2.862	12.812	0.241	2.015	2.510
Benzene	27	0.436	0.645	0.950	1.190	1.530	1.830	0.370	0.961	0.405
Benzylchloride	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bromodichloromethane	13	0.000	0.000	0.080	0.100	0.156	0.180	0.000	0.075	0.062
Bromoform	27	0.030	0.030	0.040	0.060	0.070	0.080	0.020	0.045	0.017
Bromomethane	27	0.090	0.102	0.140	0.175	0.200	0.250	0.090	0.144	0.046
Butane	27	1.076	1.825	2.230	3.621	4.806	7.740	0.990	2.809	1.644
Carbontetrachloride	27	0.356	0.605	0.620	0.673	0.748	0.770	0.310	0.610	0.123
Chlorobenzene	27	0.020	0.030	0.036	0.050	0.060	0.060	0.020	0.039	0.014
Chloroethane	27	0.040	0.047	0.050	0.095	0.110	0.120	0.000	0.068	0.031
Chloroform	27	0.089	0.090	0.110	0.140	0.164	0.180	0.080	0.118	0.031
Chloromethane	27	1.081	1.115	1.140	1.220	1.376	1.420	1.070	1.191	0.106
cis-1,2-Dichloroethylene	27	0.000	0.000	0.020	0.040	0.050	0.060	0.000	0.021	0.022
cis-1,2-Dimethylcyclohexa	25	0.000	0.020	0.040	0.060	0.076	0.090	0.000	0.038	0.029
cis-1,3-Dichloropropene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 43 VOC Annual Statistics at Kingston (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dimethylcyclohexa	26	0.040	0.043	0.060	0.080	0.130	0.200	0.030	0.074	0.043
cis-1,4/t-1,3-Dimethylcycl	27	0.010	0.020	0.020	0.040	0.080	0.090	0.010	0.034	0.025
cis-2-Butene	27	0.065	0.090	0.120	0.150	0.200	0.500	0.060	0.139	0.088
cis-2-Heptene	27	0.000	0.000	0.070	0.100	0.120	0.140	0.000	0.056	0.050
cis-2-Hexene	27	0.000	0.000	0.000	0.035	0.064	0.090	0.000	0.021	0.029
cis-2-Pentene	27	0.090	0.110	0.130	0.170	0.214	0.270	0.050	0.142	0.051
cis-3-Methyl-2-pentene	27	0.000	0.030	0.030	0.045	0.064	0.090	0.000	0.036	0.024
cis-4-Methyl-2-pentene	27	0.000	0.000	0.044	0.085	0.114	0.170	0.000	0.051	0.050
Cyclohexane	27	0.060	0.085	0.120	0.180	0.232	0.270	0.050	0.134	0.066
Cyclohexene	27	0.000	0.000	0.000	0.040	0.060	0.090	0.000	0.020	0.029
Cyclopentane	27	0.083	0.115	0.140	0.187	0.234	0.310	0.060	0.156	0.064
Cyclopentene	27	0.023	0.031	0.050	0.060	0.074	0.120	0.020	0.050	0.023
Decane	27	0.130	0.211	0.290	0.410	0.480	0.960	0.080	0.329	0.191
Dibromochloromethane	23	0.002	0.020	0.030	0.055	0.106	0.130	0.000	0.045	0.037
Dibromomethane	27	0.000	0.050	0.060	0.105	0.130	0.180	0.000	0.073	0.046
Dichloromethane	27	0.334	0.440	0.720	2.885	4.458	32.960	0.310	2.975	6.500
Dodecane	27	0.049	0.090	0.150	0.210	0.706	3.740	0.030	0.369	0.749
EDB	27	0.000	0.020	0.030	0.070	0.092	0.120	0.000	0.044	0.036
Ethane	27	2.876	3.861	4.540	5.463	6.003	6.264	2.081	4.641	1.113
Ethylbenzene	27	0.196	0.270	0.340	0.525	0.672	0.840	0.180	0.411	0.183
Ethylbromide	27	0.000	0.000	0.000	0.030	0.040	0.060	0.000	0.015	0.019
Ethylene	27	0.681	1.143	1.727	2.502	3.194	4.018	0.446	1.878	0.970
Freon11	27	1.660	1.688	1.770	1.945	2.228	2.260	1.650	1.851	0.204
Freon113	26	0.413	0.660	0.690	0.758	0.830	0.890	0.390	0.692	0.127
Freon114	27	0.150	0.160	0.180	0.265	0.300	0.310	0.150	0.213	0.061
Freon12	27	2.665	2.750	2.950	3.660	4.396	8.580	2.650	3.446	1.250
Freon22	27	0.550	0.605	0.680	0.830	1.080	1.310	0.510	0.759	0.221
Heptane	27	0.173	0.205	0.290	0.428	0.522	0.800	0.110	0.321	0.156
Hexachlorobutadiene	27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hexane	27	0.346	0.495	0.760	1.175	2.014	8.270	0.300	1.202	1.543
Hexylbenzene	26	0.000	0.000	0.000	0.000	0.025	0.040	0.000	0.005	0.011
Indane	27	0.040	0.050	0.060	0.080	0.104	0.160	0.030	0.069	0.032
Isobutane	27	0.445	0.830	1.050	1.540	1.758	4.580	0.420	1.251	0.812
iso-Butylbenzene	27	0.010	0.020	0.020	0.030	0.034	0.040	0.010	0.024	0.009
Isopentane	27	1.573	1.750	2.400	3.430	5.344	6.750	1.460	2.930	1.490
Isoprene	27	0.000	0.055	0.120	0.245	0.866	1.400	0.000	0.279	0.379
iso-Propylbenzene	27	0.030	0.040	0.040	0.052	0.070	0.090	0.020	0.047	0.016

Table 43 VOC Annual Statistics at Kingston (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
m and p-Xylene	27	0.510	0.735	0.986	1.460	2.028	2.390	0.480	1.156	0.553
Methylcyclohexane	27	0.080	0.110	0.150	0.210	0.252	0.540	0.070	0.168	0.095
Methylcyclopentane	27	0.146	0.250	0.340	0.440	0.580	1.390	0.140	0.380	0.246
Naphthalene	21	0.070	0.120	0.160	0.500	0.680	1.530	0.040	0.348	0.387
n-Butylbenzene	27	0.020	0.030	0.030	0.040	0.064	0.100	0.020	0.040	0.019
Nonane	27	0.083	0.140	0.206	0.275	0.358	0.600	0.050	0.228	0.132
n-Propylbenzene	27	0.063	0.080	0.090	0.128	0.170	0.220	0.050	0.109	0.044
Octane	27	0.080	0.110	0.130	0.230	0.294	0.460	0.070	0.174	0.094
o-Xylene	27	0.179	0.260	0.348	0.505	0.702	0.840	0.170	0.403	0.194
p-Cymene	27	0.000	0.025	0.040	0.055	0.090	0.110	0.000	0.044	0.031
Pentane	27	0.743	0.905	1.180	1.690	1.885	2.890	0.550	1.338	0.553
Propane	27	1.819	2.150	4.930	6.360	12.608	26.690	1.000	6.139	6.390
Propylene	27	0.223	0.275	0.420	0.605	0.804	1.300	0.170	0.476	0.262
sec-Butylbenzene	27	0.012	0.020	0.020	0.030	0.030	0.040	0.010	0.023	0.007
Styrene	25	0.012	0.110	0.190	0.300	0.494	1.580	0.000	0.290	0.336
tert-Butylbenzene	27	0.000	0.000	0.000	0.000	0.020	0.030	0.000	0.004	0.008
Tetrachloroethylene	27	0.282	0.430	0.590	1.005	1.738	5.890	0.260	0.973	1.102
Toluene	27	0.887	1.195	1.750	2.480	3.538	7.850	0.630	2.172	1.472
trans-1,2-Dichloroethylene	27	0.000	0.000	0.000	0.030	0.040	0.050	0.000	0.016	0.018
trans-1,2-Dimethylcyclohe	26	0.000	0.020	0.035	0.059	0.090	0.140	0.000	0.043	0.035
trans-1,3-Dichloropropene	26	0.000	0.000	0.000	0.000	0.020	0.020	0.000	0.003	0.007
trans-1,4-Dimethylcyclohe	27	0.010	0.020	0.030	0.040	0.064	0.100	0.010	0.034	0.022
trans-2-Butene	27	0.073	0.090	0.110	0.155	0.234	0.600	0.070	0.145	0.106
trans-2-Heptene	27	0.000	0.000	0.020	0.030	0.040	0.050	0.000	0.016	0.018
trans-2-Hexene	27	0.005	0.025	0.030	0.045	0.070	0.100	0.000	0.038	0.022
trans-2-Octene	15	0.000	0.000	0.000	0.000	0.022	0.030	0.000	0.005	0.011
trans-2-Pentene	27	0.040	0.056	0.086	0.145	0.212	0.420	0.030	0.116	0.092
trans-3-Heptene	27	0.000	0.000	0.000	0.000	0.008	0.030	0.000	0.003	0.008
trans-3-Methyl-2-pentene	27	0.000	0.000	0.000	0.015	0.050	0.090	0.000	0.014	0.026
trans-4-Methyl-2-pentene	27	0.000	0.000	0.000	0.010	0.028	0.132	0.000	0.011	0.028
Trichloroethylene	27	0.040	0.055	0.070	0.095	0.126	0.180	0.020	0.079	0.036
Undecane	27	0.106	0.200	0.300	0.380	0.684	2.230	0.070	0.419	0.464
Vinylchloride	27	0.000	0.000	0.020	0.030	0.030	0.040	0.000	0.017	0.013

Note: VOC sites are operated by Environment Canada.

Table 44 VOC Annual Statistics at Kitchener (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	No. of Samples	5%	25%	50%	75%	90%	Max.	Min.	Mean	Std. Dev.
1,1,1-Trichloroethane	52	0.286	0.330	0.350	0.370	0.390	0.420	0.250	0.350	0.036
1,1,2,2-Tetrachloroethane	52	0.011	0.030	0.060	0.070	0.070	0.090	0.000	0.051	0.022
1,1,2-Trichloroethane	52	0.000	0.020	0.050	0.070	0.080	0.110	0.000	0.046	0.031
1,1-Dichloroethane	52	0.000	0.000	0.040	0.050	0.059	0.060	0.000	0.031	0.023
1,1-Dichloroethylene	52	0.011	0.030	0.070	0.090	0.100	0.110	0.000	0.064	0.031
1,2,3-Trimethylbenzene	52	0.056	0.100	0.150	0.233	0.387	0.900	0.030	0.201	0.172
1,2,4-Trichlorobenzene	52	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	52	0.227	0.363	0.580	1.000	1.508	3.990	0.080	0.827	0.771
1,2-Dichlorobenzene	52	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	52	0.050	0.068	0.080	0.080	0.090	0.100	0.050	0.074	0.013
1,2-Dichloropropane	52	0.000	0.000	0.000	0.043	0.060	0.070	0.000	0.021	0.025
1,2-Diethylbenzene	52	0.010	0.020	0.030	0.040	0.049	0.080	0.000	0.031	0.015
1,3,5-Trimethylbenzene	52	0.076	0.120	0.190	0.330	0.508	1.260	0.020	0.271	0.246
1,3-Butadiene	52	0.060	0.088	0.110	0.150	0.180	0.670	0.050	0.134	0.099
1,3-Dichlorobenzene	52	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	52	0.020	0.030	0.050	0.070	0.099	0.220	0.010	0.058	0.041
1,4-Dichlorobenzene	52	0.040	0.050	0.080	0.113	0.188	0.350	0.030	0.102	0.071
1,4-Dichlorobutane	52	0.000	0.000	0.000	0.008	0.039	0.060	0.000	0.009	0.017
1,4-Diethylbenzene	52	0.056	0.080	0.140	0.190	0.266	0.700	0.020	0.158	0.123
1-Butene/Isobutene	52	0.256	0.375	0.470	0.593	0.694	2.270	0.240	0.547	0.351
1-Butyne	52	0.000	0.000	0.000	0.030	0.040	0.050	0.000	0.015	0.019
1-Decene	38	0.000	0.000	0.000	0.078	0.110	0.250	0.000	0.037	0.057
1-Heptene	38	0.000	0.095	0.130	0.170	0.222	0.390	0.000	0.141	0.080
1-Hexene	52	0.101	0.170	0.200	0.260	0.279	0.450	0.000	0.215	0.086
1-Methylcyclohexene	52	0.030	0.040	0.060	0.070	0.089	0.110	0.020	0.057	0.021
1-Methylcyclopentene	52	0.026	0.040	0.060	0.080	0.100	0.270	0.000	0.066	0.046
1-Nonene	38	0.000	0.000	0.000	0.000	0.056	0.110	0.000	0.014	0.029
1-Octene	36	0.000	0.038	0.050	0.060	0.070	0.110	0.000	0.047	0.027
1-Pentene	52	0.076	0.100	0.130	0.173	0.258	0.540	0.050	0.154	0.088
1-Propyne	52	0.026	0.050	0.070	0.093	0.129	0.380	0.000	0.082	0.059
2,2,3-Trimethylbutane	52	0.000	0.000	0.000	0.000	0.020	0.070	0.000	0.005	0.014
2,2,4-Trimethylpentane	52	0.151	0.278	0.410	0.595	1.117	2.590	0.130	0.559	0.510
2,2,5-Trimethylhexane	52	0.010	0.020	0.030	0.043	0.079	0.150	0.010	0.041	0.032
2,2-Dimethylbutane	52	0.076	0.130	0.185	0.273	0.338	0.790	0.050	0.216	0.137
2,2-Dimethylhexane	52	0.010	0.020	0.030	0.040	0.059	0.080	0.000	0.033	0.018
2,2-Dimethylpentane	52	0.020	0.038	0.050	0.070	0.090	0.220	0.000	0.057	0.039
2,2-Dimethylpropane	52	0.030	0.040	0.060	0.070	0.079	0.120	0.020	0.055	0.021

Table 44 VOC Annual Statistics at Kitchener (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	52	0.056	0.100	0.145	0.220	0.387	0.880	0.040	0.201	0.180
2,3-Dimethylbutane	52	0.110	0.178	0.270	0.443	0.585	1.340	0.090	0.343	0.261
2,3-Dimethylpentane	52	0.106	0.170	0.230	0.313	0.519	1.120	0.080	0.294	0.218
2,4-Dimethylhexane	52	0.046	0.070	0.095	0.140	0.228	0.470	0.040	0.125	0.094
2,4-Dimethylpentane	52	0.046	0.090	0.120	0.175	0.230	0.670	0.030	0.151	0.117
2,5-Dimethylhexane	52	0.030	0.058	0.070	0.100	0.168	0.370	0.030	0.092	0.072
2-Ethyl-1-Butene	52	0.000	0.000	0.020	0.030	0.050	0.130	0.000	0.025	0.030
2-Ethyltoluene	52	0.066	0.108	0.160	0.250	0.379	0.930	0.050	0.215	0.179
2-Methyl-1-butene	52	0.066	0.108	0.170	0.265	0.330	0.750	0.000	0.211	0.166
2-Methyl-2-butene	52	0.100	0.150	0.195	0.283	0.473	1.210	0.080	0.268	0.228
2-Methylheptane	52	0.070	0.108	0.150	0.213	0.380	0.670	0.050	0.192	0.142
2-Methylhexane	52	0.166	0.228	0.345	0.505	0.765	1.690	0.120	0.446	0.329
2-Methylpentane	52	0.507	0.700	1.075	1.718	2.160	7.060	0.360	1.404	1.193
3,6-Dimethyloctane	52	0.000	0.000	0.030	0.043	0.078	0.180	0.000	0.030	0.036
3-Ethyltoluene	52	0.147	0.230	0.360	0.598	0.900	2.450	0.090	0.511	0.468
3-Methyl-1-pentene	52	0.000	0.000	0.040	0.060	0.079	0.120	0.000	0.032	0.033
3-Methylheptane	52	0.060	0.098	0.140	0.200	0.319	0.670	0.040	0.175	0.138
3-Methylhexane	52	0.176	0.240	0.385	0.523	0.760	1.980	0.000	0.467	0.367
3-Methylpentane	52	0.328	0.460	0.690	1.120	1.398	4.600	0.240	0.919	0.795
4-Ethyltoluene	52	0.086	0.140	0.205	0.343	0.523	1.190	0.060	0.276	0.227
4-Methyl-1-pentene	52	0.000	0.000	0.035	0.060	0.079	0.120	0.000	0.033	0.033
4-Methylheptane	52	0.000	0.038	0.060	0.090	0.155	0.290	0.000	0.074	0.067
Acetylene	52	0.686	1.106	1.519	1.974	2.322	9.088	0.574	1.711	1.249
Benzene	52	0.472	0.740	0.950	1.230	1.426	3.690	0.330	1.072	0.622
Benzylchloride	52	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.001	0.006
Bromodichloromethane	38	0.043	0.073	0.095	0.100	0.126	0.180	0.000	0.091	0.035
Bromoform	52	0.030	0.038	0.060	0.070	0.079	0.090	0.020	0.054	0.019
Bromomethane	52	0.090	0.108	0.170	0.190	0.200	0.220	0.080	0.159	0.044
Butane	52	1.005	1.673	2.595	3.683	4.967	20.350	0.780	3.238	2.873
Carbontetrachloride	52	0.310	0.568	0.620	0.680	0.709	0.740	0.310	0.591	0.129
Chlorobenzene	52	0.026	0.030	0.060	0.060	0.070	0.080	0.020	0.050	0.016
Chloroethane	52	0.080	0.100	0.125	0.170	0.198	0.270	0.050	0.136	0.048
Chloroform	52	0.080	0.098	0.120	0.143	0.170	0.270	0.070	0.128	0.043
Chloromethane	52	1.010	1.128	1.165	1.213	1.249	1.400	0.920	1.163	0.087
cis-1,2-Dichloroethylene	52	0.000	0.000	0.040	0.050	0.060	0.070	0.000	0.033	0.023
cis-1,2-Dimethylcyclohexa	52	0.000	0.030	0.040	0.050	0.069	0.110	0.000	0.043	0.025
cis-1,3-Dichloropropene	52	0.000	0.000	0.000	0.000	0.010	0.150	0.000	0.008	0.028

Table 44 VOC Annual Statistics at Kitchener (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dimethylcyclohex	52	0.020	0.040	0.055	0.080	0.136	0.200	0.010	0.067	0.045
cis-1,4/t-1,3-Dimethylcycl	52	0.000	0.020	0.030	0.030	0.059	0.100	0.000	0.028	0.021
cis-2-Butene	52	0.066	0.090	0.130	0.170	0.209	0.710	0.050	0.154	0.118
cis-2-Heptene	52	0.000	0.000	0.040	0.060	0.080	0.120	0.000	0.037	0.034
cis-2-Hexene	52	0.000	0.000	0.025	0.060	0.080	0.170	0.000	0.036	0.041
cis-2-Pentene	52	0.070	0.100	0.125	0.163	0.229	0.520	0.060	0.148	0.087
cis-3-Methyl-2-pentene	52	0.000	0.020	0.040	0.053	0.090	0.190	0.000	0.045	0.042
cis-4-Methyl-2-pentene	52	0.000	0.000	0.000	0.050	0.080	0.160	0.000	0.026	0.039
Cyclohexane	52	0.047	0.100	0.130	0.183	0.248	0.560	0.000	0.153	0.102
Cyclohexene	52	0.000	0.000	0.030	0.053	0.070	0.090	0.000	0.030	0.031
Cyclopentane	52	0.096	0.160	0.240	0.343	0.596	1.140	0.070	0.301	0.217
Cyclopentene	52	0.020	0.038	0.055	0.070	0.099	0.190	0.020	0.059	0.034
Decane	52	0.096	0.138	0.240	0.413	0.625	1.780	0.070	0.363	0.365
Dibromochloromethane	44	0.020	0.030	0.060	0.080	0.097	0.130	0.000	0.058	0.031
Dibromomethane	52	0.000	0.060	0.105	0.130	0.140	0.230	0.000	0.094	0.051
Dichloromethane	52	0.241	0.330	0.450	0.633	1.116	2.970	0.210	0.593	0.476
Dodecane	52	0.036	0.060	0.080	0.113	0.159	0.340	0.010	0.103	0.071
EDB	52	0.016	0.030	0.060	0.080	0.090	0.120	0.000	0.058	0.028
Ethane	52	1.691	2.604	2.996	4.117	4.827	9.314	1.235	3.390	1.442
Ethylbenzene	52	0.200	0.368	0.585	0.813	1.182	16.930	0.190	0.988	2.302
Ethylbromide	52	0.000	0.000	0.040	0.043	0.050	0.060	0.000	0.027	0.022
Ethylene	52	0.909	1.316	1.901	2.490	3.301	8.710	0.696	2.148	1.317
Freon11	52	1.626	1.678	1.735	1.920	2.019	2.130	1.580	1.792	0.148
Freon113	49	0.410	0.660	0.700	0.720	0.754	0.800	0.400	0.670	0.096
Freon114	52	0.150	0.188	0.250	0.283	0.309	0.320	0.150	0.240	0.055
Freon12	52	2.596	2.708	2.840	3.013	3.149	4.220	2.510	2.889	0.286
Freon22	52	0.500	0.585	0.670	0.803	0.966	1.530	0.480	0.723	0.214
Heptane	52	0.166	0.248	0.355	0.513	0.798	1.630	0.120	0.445	0.326
Hexachlorobutadiene	52	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hexane	52	0.350	0.550	0.730	1.090	1.546	4.200	0.260	0.936	0.728
Hexylbenzene	44	0.000	0.000	0.000	0.040	0.060	0.070	0.000	0.019	0.026
Indane	52	0.040	0.060	0.085	0.130	0.188	0.460	0.020	0.108	0.083
Isobutane	52	0.541	0.868	1.210	1.685	2.130	7.250	0.370	1.484	1.115
iso-Butylbenzene	52	0.010	0.020	0.030	0.040	0.050	0.100	0.010	0.032	0.017
Isopentane	52	1.342	1.845	2.840	4.400	5.826	16.830	1.050	3.673	2.953
Isoprene	50	0.045	0.080	0.145	0.373	0.513	1.300	0.040	0.244	0.239
iso-Propylbenzene	52	0.030	0.048	0.060	0.080	0.100	0.230	0.020	0.068	0.040

Table 44 VOC Annual Statistics at Kitchener (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
m and p-Xylene	52	0.549	1.020	1.565	2.240	3.317	12.720	0.470	2.123	2.105
Methylcyclohexane	52	0.066	0.120	0.170	0.260	0.425	0.810	0.060	0.223	0.169
Methylcyclopentane	52	0.147	0.238	0.340	0.515	0.693	1.820	0.110	0.429	0.353
Naphthalene	25	0.134	0.160	0.300	0.390	0.666	1.760	0.030	0.375	0.356
n-Butylbenzene	52	0.020	0.030	0.045	0.060	0.080	0.200	0.010	0.051	0.035
Nonane	52	0.070	0.108	0.180	0.253	0.349	1.000	0.070	0.234	0.201
n-Propylbenzene	52	0.060	0.090	0.135	0.210	0.319	0.780	0.040	0.180	0.145
Octane	52	0.060	0.108	0.160	0.200	0.336	0.650	0.040	0.186	0.135
o-Xylene	52	0.197	0.338	0.540	0.743	0.999	3.950	0.170	0.673	0.629
p-Cymene	52	0.000	0.030	0.055	0.073	0.110	0.190	0.000	0.060	0.043
Pentane	52	0.860	1.288	1.890	2.520	4.424	10.370	0.680	2.370	1.956
Propane	52	1.344	1.940	2.790	3.533	4.887	10.520	0.880	3.125	1.793
Propylene	52	0.280	0.403	0.555	0.793	1.018	3.630	0.270	0.676	0.535
sec-Butylbenzene	52	0.010	0.020	0.030	0.040	0.059	0.110	0.010	0.035	0.019
Styrene	50	0.055	0.083	0.120	0.198	0.294	0.540	0.000	0.163	0.117
tert-Butylbenzene	52	0.000	0.000	0.000	0.030	0.030	0.070	0.000	0.013	0.017
Tetrachloroethylene	52	0.106	0.178	0.210	0.320	0.789	1.740	0.080	0.334	0.314
Toluene	52	1.186	1.883	2.510	4.230	9.159	20.040	0.890	4.028	3.945
trans-1,2-Dichloroethylene	52	0.000	0.018	0.040	0.040	0.050	0.060	0.000	0.030	0.019
trans-1,2-Dimethylcyclohe	52	0.000	0.015	0.040	0.050	0.088	0.150	0.000	0.041	0.037
trans-1,3-Dichloropropene	52	0.000	0.000	0.000	0.020	0.030	0.170	0.000	0.017	0.033
trans-1,4-Dimethylcyclohe	52	0.010	0.020	0.030	0.030	0.059	0.110	0.000	0.030	0.021
trans-2-Butene	52	0.070	0.090	0.125	0.180	0.220	0.840	0.060	0.165	0.139
trans-2-Heptene	52	0.000	0.000	0.030	0.050	0.060	0.100	0.000	0.029	0.028
trans-2-Hexene	52	0.000	0.020	0.050	0.060	0.079	0.200	0.000	0.049	0.041
trans-2-Octene	14	0.000	0.000	0.000	0.000	0.027	0.050	0.000	0.007	0.015
trans-2-Pentene	52	0.030	0.060	0.115	0.195	0.287	0.750	0.020	0.158	0.149
trans-3-Heptene	52	0.000	0.000	0.000	0.000	0.019	0.050	0.000	0.004	0.010
trans-3-Methyl-2-pentene	52	0.000	0.000	0.000	0.040	0.079	0.170	0.000	0.025	0.042
trans-4-Methyl-2-pentene	52	0.000	0.000	0.000	0.000	0.018	0.030	0.000	0.003	0.008
Trichloroethylene	52	0.040	0.088	0.140	0.245	0.484	0.690	0.030	0.205	0.176
Undecane	52	0.060	0.110	0.175	0.263	0.516	1.180	0.040	0.252	0.255
Vinylchloride	52	0.000	0.020	0.030	0.033	0.040	0.040	0.000	0.026	0.012

Note: VOC sites are operated by Environment Canada.

Table 45 VOC Annual Statistics at London (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	25	0.320	0.340	0.360	0.390	0.406	0.488	0.310	0.370	0.043
1,1,2,2-Tetrachloroethane	25	0.004	0.020	0.030	0.050	0.070	0.074	0.000	0.036	0.022
1,1,2-Trichloroethane	25	0.000	0.000	0.000	0.040	0.052	0.094	0.000	0.021	0.029
1,1-Dichloroethane	25	0.000	0.000	0.000	0.040	0.046	0.070	0.000	0.018	0.022
1,1-Dichloroethylene	25	0.000	0.020	0.030	0.066	0.079	0.090	0.000	0.036	0.030
1,2,3-Trimethylbenzene	25	0.050	0.060	0.080	0.101	0.140	0.206	0.041	0.089	0.040
1,2,4-Trichlorobenzene	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	25	0.154	0.230	0.300	0.402	0.556	0.932	0.121	0.350	0.186
1,2-Dichlorobenzene	25	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.002	0.010
1,2-Dichloroethane	25	0.050	0.060	0.070	0.080	0.086	0.113	0.000	0.068	0.020
1,2-Dichloropropane	25	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.002	0.008
1,2-Diethylbenzene	25	0.000	0.010	0.018	0.020	0.026	0.088	0.000	0.017	0.018
1,3,5-Trimethylbenzene	25	0.066	0.080	0.110	0.140	0.191	0.324	0.060	0.121	0.061
1,3-Butadiene	25	0.060	0.080	0.100	0.120	0.168	0.190	0.050	0.105	0.040
1,3-Dichlorobenzene	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	25	0.020	0.020	0.030	0.037	0.048	0.076	0.018	0.031	0.014
1,4-Dichlorobenzene	25	0.040	0.044	0.050	0.070	0.084	0.100	0.030	0.057	0.019
1,4-Dichlorobutane	25	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.003	0.010
1,4-Diethylbenzene	25	0.050	0.060	0.070	0.098	0.120	0.198	0.048	0.081	0.034
1-Butene/Isobutene	25	0.304	0.360	0.462	0.629	0.803	1.040	0.290	0.523	0.209
1-Butyne	25	0.000	0.000	0.000	0.000	0.020	0.100	0.000	0.007	0.021
1-Decene	9	0.000	0.000	0.000	0.040	0.052	0.059	0.000	0.020	0.025
1-Heptene	9	0.020	0.080	0.110	0.119	0.196	0.210	0.000	0.109	0.065
1-Hexene	25	0.018	0.100	0.180	0.230	0.263	0.290	0.000	0.166	0.082
1-Methylcyclohexene	25	0.004	0.030	0.040	0.056	0.060	0.103	0.000	0.043	0.024
1-Methylcyclopentene	25	0.030	0.030	0.044	0.050	0.070	0.082	0.020	0.046	0.016
1-Nonene	9	0.000	0.000	0.030	0.060	0.096	0.160	0.000	0.046	0.052
1-Octene	9	0.034	0.050	0.053	0.080	0.112	0.153	0.030	0.070	0.038
1-Pentene	25	0.070	0.080	0.111	0.162	0.180	0.243	0.060	0.123	0.048
1-Propyne	21	0.040	0.050	0.060	0.090	0.575	4.490	0.000	0.387	1.021
2,2,3-Trimethylbutane	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2,2,4-Trimethylpentane	25	0.120	0.190	0.240	0.372	0.514	0.639	0.100	0.295	0.148
2,2,5-Trimethylhexane	25	0.010	0.020	0.020	0.028	0.043	0.060	0.000	0.023	0.013
2,2-Dimethylbutane	25	0.080	0.096	0.120	0.185	0.222	0.289	0.070	0.144	0.060
2,2-Dimethylhexane	25	0.000	0.010	0.010	0.027	0.036	0.060	0.000	0.018	0.014
2,2-Dimethylpentane	25	0.000	0.020	0.030	0.050	0.057	0.070	0.000	0.030	0.020
2,2-Dimethylpropane	25	0.020	0.030	0.036	0.050	0.060	0.070	0.000	0.038	0.016

Table 45 VOC Annual Statistics at London (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	25	0.044	0.070	0.110	0.140	0.190	0.280	0.040	0.110	0.060
2,3-Dimethylbutane	25	0.102	0.150	0.178	0.340	0.398	0.477	0.080	0.227	0.118
2,3-Dimethylpentane	25	0.086	0.130	0.188	0.210	0.357	0.510	0.070	0.197	0.103
2,4-Dimethylhexane	25	0.032	0.050	0.060	0.090	0.120	0.199	0.030	0.075	0.041
2,4-Dimethylpentane	25	0.042	0.060	0.090	0.110	0.158	0.181	0.030	0.093	0.041
2,5-Dimethylhexane	25	0.030	0.040	0.050	0.068	0.088	0.120	0.000	0.055	0.026
2-Ethyl-1-Butene	25	0.000	0.010	0.010	0.016	0.020	0.036	0.000	0.011	0.009
2-Ethyltoluene	25	0.056	0.070	0.092	0.110	0.154	0.210	0.050	0.100	0.041
2-Methyl-1-butene	25	0.010	0.080	0.100	0.152	0.252	0.440	0.000	0.131	0.097
2-Methyl-2-butene	25	0.110	0.140	0.160	0.240	0.283	0.320	0.090	0.180	0.065
2-Methylheptane	25	0.044	0.070	0.108	0.130	0.186	0.268	0.000	0.115	0.059
2-Methylhexane	25	0.152	0.200	0.280	0.340	0.538	0.960	0.100	0.313	0.182
2-Methylpentane	25	0.486	0.598	0.756	1.160	1.430	2.430	0.310	0.917	0.459
3,6-Dimethyloctane	25	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.002	0.009
3-Ethyltoluene	25	0.120	0.170	0.220	0.250	0.380	0.572	0.109	0.233	0.112
3-Methyl-1-pentene	25	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.004	0.013
3-Methylheptane	25	0.060	0.070	0.083	0.120	0.167	0.226	0.050	0.105	0.047
3-Methylhexane	25	0.152	0.210	0.306	0.390	0.610	1.290	0.130	0.362	0.247
3-Methylpentane	25	0.344	0.414	0.530	0.830	1.024	4.390	0.230	0.760	0.797
4-Ethyltoluene	25	0.070	0.090	0.112	0.138	0.190	0.292	0.060	0.128	0.055
4-Methyl-1-pentene	25	0.000	0.000	0.000	0.000	0.040	0.070	0.000	0.008	0.019
4-Methylheptane	25	0.000	0.030	0.040	0.060	0.070	0.094	0.000	0.041	0.026
Acetylene	25	0.880	1.141	1.530	2.148	4.049	43.100	0.655	3.803	8.569
Benzene	25	0.552	0.690	1.000	1.170	1.639	2.580	0.530	1.024	0.478
Benzylchloride	25	0.020	0.020	0.030	0.050	0.052	0.060	0.020	0.035	0.014
Bromodichloromethane	11	0.000	0.000	0.060	0.075	0.086	0.100	0.000	0.047	0.039
Bromoform	25	0.030	0.030	0.032	0.060	0.070	0.077	0.030	0.043	0.017
Bromomethane	25	0.090	0.100	0.100	0.170	0.185	0.200	0.090	0.127	0.040
Butane	25	1.482	1.764	2.560	3.380	4.350	6.390	1.190	2.815	1.220
Carbontetrachloride	25	0.388	0.560	0.608	0.680	0.734	0.780	0.339	0.610	0.106
Chlorobenzene	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	25	0.008	0.040	0.056	0.090	0.110	0.123	0.000	0.064	0.034
Chloroform	25	0.072	0.080	0.084	0.120	0.139	0.169	0.070	0.100	0.029
Chloromethane	25	1.078	1.122	1.181	1.218	1.276	1.489	1.070	1.186	0.088
cis-1,2-Dichloroethylene	25	0.000	0.000	0.010	0.040	0.040	0.073	0.000	0.017	0.022
cis-1,2-Dimethylcyclohexa	21	0.000	0.020	0.030	0.040	0.050	0.084	0.000	0.029	0.020
cis-1,3-Dichloropropene	25	0.000	0.000	0.000	0.000	0.000	0.140	0.000	0.006	0.028

Table 45 VOC Annual Statistics at London (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dimethylcyclohexa	25	0.012	0.030	0.040	0.050	0.062	0.094	0.000	0.040	0.021
cis-1,4/t-1,3-Dimethylcycl	25	0.000	0.010	0.010	0.020	0.028	0.054	0.000	0.015	0.012
cis-2-Butene	25	0.070	0.080	0.090	0.140	0.186	0.360	0.058	0.123	0.065
cis-2-Heptene	25	0.000	0.000	0.000	0.050	0.076	0.116	0.000	0.025	0.038
cis-2-Hexene	25	0.000	0.000	0.000	0.020	0.026	0.069	0.000	0.008	0.016
cis-2-Pentene	25	0.060	0.070	0.092	0.140	0.173	0.200	0.050	0.106	0.043
cis-3-Methyl-2-pentene	25	0.000	0.000	0.030	0.038	0.049	0.070	0.000	0.025	0.019
cis-4-Methyl-2-pentene	25	0.000	0.000	0.070	0.086	0.146	0.230	0.000	0.068	0.061
Cyclohexane	25	0.044	0.080	0.118	0.212	0.410	1.940	0.020	0.241	0.389
Cyclohexene	25	0.000	0.000	0.000	0.000	0.018	0.093	0.000	0.007	0.021
Cyclopentane	25	0.074	0.128	0.146	0.249	0.308	0.390	0.060	0.180	0.089
Cyclopentene	25	0.020	0.022	0.030	0.050	0.060	0.070	0.020	0.037	0.016
Decane	25	0.044	0.070	0.094	0.150	0.190	0.330	0.040	0.114	0.070
Dibromochloromethane	23	0.000	0.020	0.020	0.045	0.082	0.136	0.000	0.038	0.035
Dibromomethane	25	0.050	0.050	0.060	0.100	0.116	0.130	0.050	0.075	0.028
Dichloromethane	25	0.200	0.260	0.340	0.470	0.625	0.950	0.190	0.394	0.185
Dodecane	25	0.030	0.040	0.060	0.090	0.124	0.180	0.020	0.071	0.042
EDB	25	0.000	0.020	0.020	0.050	0.076	0.143	0.000	0.038	0.035
Ethane	25	2.568	3.129	3.583	4.276	4.893	5.784	1.688	3.718	0.961
Ethylbenzene	25	0.202	0.260	0.340	0.440	0.610	0.880	0.140	0.377	0.173
Ethylbromide	25	0.000	0.000	0.000	0.030	0.040	0.040	0.000	0.013	0.018
Ethylene	25	1.076	1.712	2.231	2.977	4.229	4.761	0.980	2.445	1.078
Freon11	25	1.616	1.660	1.710	1.830	1.852	1.980	1.610	1.736	0.098
Freon113	24	0.390	0.610	0.681	0.704	0.762	0.810	0.380	0.638	0.126
Freon114	25	0.150	0.150	0.160	0.251	0.276	0.295	0.150	0.196	0.055
Freon12	25	2.412	2.610	2.710	2.920	2.972	3.543	2.380	2.761	0.247
Freon22	25	0.462	0.510	0.550	0.720	0.805	0.858	0.440	0.620	0.135
Heptane	25	0.132	0.190	0.250	0.290	0.594	1.074	0.100	0.322	0.249
Hexachlorobutadiene	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hexane	25	0.356	0.450	0.632	0.910	1.388	9.630	0.240	1.078	1.819
Hexylbenzene	23	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.001	0.005
Indane	25	0.032	0.040	0.050	0.069	0.085	0.124	0.030	0.056	0.022
Isobutane	25	0.671	0.800	1.188	1.644	2.270	3.310	0.530	1.384	0.698
iso-Butylbenzene	25	0.010	0.010	0.020	0.020	0.026	0.030	0.000	0.018	0.007
Isopentane	25	1.286	1.820	2.260	3.250	4.646	6.445	1.190	2.665	1.324
Isoprene	25	0.040	0.060	0.094	0.140	0.346	0.510	0.040	0.141	0.133
iso-Propylbenzene	25	0.022	0.030	0.040	0.049	0.058	0.070	0.020	0.040	0.012

Table 45 VOC Annual Statistics at London (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
m and p-Xylene	25	0.482	0.650	0.840	1.240	1.745	2.620	0.360	1.017	0.541
Methylcyclohexane	25	0.050	0.060	0.110	0.162	0.218	0.332	0.030	0.128	0.081
Methylcyclopentane	25	0.152	0.200	0.268	0.320	0.462	1.210	0.090	0.303	0.214
Naphthalene	21	0.090	0.142	0.220	0.330	0.724	1.082	0.090	0.310	0.264
n-Butylbenzene	25	0.000	0.020	0.028	0.039	0.040	0.056	0.000	0.027	0.014
Nonane	25	0.050	0.060	0.094	0.122	0.146	0.260	0.040	0.100	0.052
n-Propylbenzene	25	0.051	0.060	0.080	0.110	0.136	0.184	0.040	0.088	0.035
Octane	25	0.060	0.080	0.130	0.170	0.195	0.384	0.060	0.133	0.072
o-Xylene	25	0.172	0.230	0.280	0.420	0.545	0.770	0.130	0.336	0.162
p-Cymene	25	0.000	0.000	0.020	0.030	0.040	0.050	0.000	0.017	0.017
Pentane	25	0.806	1.060	1.470	2.020	2.960	4.590	0.750	1.717	0.907
Propane	25	1.484	2.160	2.720	3.170	4.833	5.280	1.370	2.912	1.163
Propylene	25	0.326	0.390	0.470	0.679	0.938	1.489	0.290	0.587	0.302
sec-Butylbenzene	25	0.000	0.010	0.020	0.020	0.024	0.030	0.000	0.016	0.008
Styrene	23	0.000	0.045	0.060	0.100	0.130	0.230	0.000	0.073	0.054
tert-Butylbenzene	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tetrachloroethylene	25	0.104	0.132	0.206	0.250	0.406	0.700	0.080	0.227	0.143
Toluene	25	0.766	1.060	2.026	2.400	3.368	9.240	0.550	2.289	1.989
trans-1,2-Dichloroethylene	25	0.000	0.000	0.000	0.040	0.048	0.061	0.000	0.016	0.021
trans-1,2-Dimethylcyclohe	25	0.000	0.000	0.000	0.030	0.040	0.050	0.000	0.014	0.018
trans-1,3-Dichloropropene	25	0.000	0.000	0.000	0.000	0.020	0.150	0.000	0.011	0.033
trans-1,4-Dimethylcyclohe	25	0.002	0.010	0.012	0.020	0.021	0.055	0.000	0.016	0.011
trans-2-Butene	25	0.071	0.090	0.120	0.152	0.186	0.430	0.060	0.132	0.074
trans-2-Heptene	25	0.000	0.000	0.000	0.030	0.042	0.294	0.000	0.031	0.070
trans-2-Hexene	25	0.000	0.020	0.020	0.030	0.046	0.085	0.000	0.027	0.020
trans-2-Octene	16	0.000	0.000	0.000	0.020	0.030	0.040	0.000	0.009	0.015
trans-2-Pentene	25	0.030	0.040	0.060	0.080	0.165	0.240	0.026	0.079	0.054
trans-3-Heptene	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
trans-3-Methyl-2-pentene	25	0.000	0.000	0.000	0.000	0.016	0.030	0.000	0.003	0.008
trans-4-Methyl-2-pentene	25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Trichloroethylene	25	0.032	0.070	0.090	0.130	0.308	0.750	0.030	0.144	0.163
Undecane	25	0.050	0.064	0.090	0.130	0.192	0.218	0.040	0.105	0.055
Vinylchloride	25	0.000	0.000	0.010	0.030	0.031	0.042	0.000	0.016	0.014

Note: VOC sites are operated by Environment Canada.

Table 46 VOC Annual Statistics at Mississauga (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	56	0.360	0.390	0.410	0.443	0.476	0.690	0.340	0.424	0.062
1,1,2,2-Tetrachloroethane	56	0.000	0.030	0.060	0.070	0.070	0.140	0.000	0.048	0.026
1,1,2-Trichloroethane	56	0.000	0.018	0.050	0.060	0.065	0.100	0.000	0.039	0.027
1,1-Dichloroethane	56	0.000	0.000	0.040	0.050	0.060	0.130	0.000	0.031	0.028
1,1-Dichloroethylene	56	0.000	0.030	0.080	0.090	0.090	0.100	0.000	0.059	0.033
1,2,3-Trimethylbenzene	56	0.030	0.080	0.130	0.220	0.290	0.380	0.020	0.154	0.096
1,2,4-Trichlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	56	0.123	0.270	0.515	0.783	1.131	1.560	0.040	0.592	0.393
1,2-Dichlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	56	0.060	0.070	0.080	0.090	0.105	0.133	0.050	0.081	0.017
1,2-Dichloropropane	56	0.000	0.000	0.000	0.050	0.050	0.070	0.000	0.022	0.025
1,2-Diethylbenzene	56	0.000	0.020	0.030	0.040	0.050	0.060	0.000	0.029	0.016
1,3,5-Trimethylbenzene	56	0.048	0.095	0.177	0.270	0.405	0.530	0.020	0.201	0.129
1,3-Butadiene	56	0.040	0.070	0.090	0.125	0.210	0.290	0.040	0.111	0.061
1,3-Dichlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	56	0.020	0.030	0.040	0.062	0.080	0.110	0.010	0.047	0.024
1,4-Dichlorobenzene	56	0.039	0.050	0.070	0.100	0.135	0.230	0.030	0.080	0.044
1,4-Dichlorobutane	56	0.000	0.000	0.000	0.000	0.030	0.060	0.000	0.006	0.014
1,4-Diethylbenzene	54	0.030	0.070	0.115	0.171	0.227	0.330	0.030	0.126	0.073
1-Butene/Isobutene	56	0.238	0.330	0.435	0.593	0.800	4.970	0.180	0.580	0.658
1-Butyne	56	0.000	0.000	0.000	0.030	0.040	0.040	0.000	0.014	0.017
1-Decene	35	0.000	0.000	0.000	0.090	0.140	0.550	0.000	0.062	0.103
1-Heptene	35	0.061	0.185	0.260	0.440	0.620	0.920	0.030	0.322	0.210
1-Hexene	56	0.088	0.140	0.205	0.240	0.300	1.800	0.000	0.233	0.242
1-Methylcyclohexene	56	0.020	0.040	0.060	0.070	0.075	0.130	0.000	0.056	0.025
1-Methylcyclopentene	56	0.020	0.039	0.050	0.070	0.080	0.780	0.020	0.066	0.101
1-Nonene	35	0.000	0.000	0.000	0.045	0.086	0.540	0.000	0.037	0.093
1-Octene	35	0.000	0.035	0.050	0.050	0.070	0.500	0.000	0.055	0.081
1-Pentene	56	0.058	0.090	0.120	0.163	0.235	5.950	0.000	0.244	0.782
1-Propyne	51	0.000	0.040	0.060	0.080	0.130	0.150	0.000	0.064	0.041
2,2,3-Trimethylbutane	56	0.000	0.000	0.000	0.020	0.040	0.080	0.000	0.012	0.020
2,2,4-Trimethylpentane	56	0.128	0.268	0.335	0.525	0.800	3.970	0.080	0.480	0.552
2,2,5-Trimethylhexane	56	0.010	0.028	0.040	0.057	0.080	0.120	0.000	0.043	0.025
2,2-Dimethylbutane	56	0.088	0.148	0.220	0.333	0.430	0.800	0.050	0.264	0.151
2,2-Dimethylhexane	56	0.010	0.020	0.040	0.053	0.090	0.100	0.000	0.044	0.026
2,2-Dimethylpentane	56	0.020	0.040	0.060	0.110	0.175	0.270	0.000	0.086	0.063
2,2-Dimethylpropane	56	0.020	0.040	0.060	0.080	0.090	0.220	0.010	0.063	0.035

Table 46 VOC Annual Statistics at Mississauga (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	56	0.048	0.088	0.133	0.200	0.300	0.900	0.030	0.166	0.135
2,3-Dimethylbutane	56	0.095	0.240	0.356	0.523	0.790	3.740	0.050	0.457	0.508
2,3-Dimethylpentane	56	0.080	0.210	0.330	0.460	0.730	1.130	0.050	0.377	0.240
2,4-Dimethylhexane	56	0.048	0.100	0.140	0.203	0.330	0.470	0.030	0.172	0.109
2,4-Dimethylpentane	56	0.040	0.120	0.168	0.263	0.410	1.130	0.030	0.221	0.180
2,5-Dimethylhexane	56	0.030	0.080	0.120	0.163	0.270	0.470	0.020	0.141	0.095
2-Ethyl-1-Butene	56	0.000	0.0[illegible]	0.012	0.020	0.035	0.980	0.000	0.033	0.130
2-Ethyltoluene	56	0.040	0.080	0.146	0.230	0.310	0.380	0.030	0.164	0.097
2-Methyl-1-butene	56	0.000	0.090	0.145	0.200	0.312	13.360	0.000	0.383	1.769
2-Methyl-2-butene	56	0.068	0.110	0.160	0.270	0.375	17.030	0.050	0.495	2.253
2-Methylheptane	56	0.068	0.218	0.350	0.517	0.795	1.480	0.040	0.429	0.335
2-Methylhexane	56	0.138	0.438	0.755	1.165	1.805	3.480	0.070	0.927	0.735
2-Methylpentane	56	0.408	1.123	1.700	2.143	4.165	10.070	0.230	2.086	1.833
3,6-Dimethyloctane	56	0.000	0.020	0.038	0.063	0.085	0.180	0.000	0.045	0.038
3-Ethyltoluene	56	0.085	0.168	0.324	0.510	0.730	0.900	0.040	0.370	0.234
3-Methyl-1-pentene	56	0.000	0.000	0.005	0.060	0.070	0.860	0.000	0.043	0.115
3-Methylheptane	56	0.058	0.170	0.290	0.488	0.680	1.410	0.040	0.362	0.281
3-Methylhexane	56	0.088	0.495	0.849	1.263	2.020	3.500	0.050	1.008	0.777
3-Methylpentane	56	0.278	0.708	1.021	1.513	2.685	5.940	0.160	1.366	1.170
4-Ethyltoluene	56	0.058	0.110	0.185	0.270	0.395	0.510	0.040	0.209	0.123
4-Methyl-1-pentene	56	0.000	0.000	0.005	0.050	0.065	0.610	0.000	0.037	0.085
4-Methylheptane	56	0.028	0.088	0.130	0.205	0.285	0.580	0.020	0.160	0.120
Acetylene	56	0.653	0.971	1.307	1.647	2.402	4.102	0.517	1.438	0.674
Benzene	56	0.560	0.863	1.337	1.669	2.225	3.090	0.460	1.368	0.648
Benzylchloride	56	0.021	0.030	0.060	0.060	0.070	0.140	0.000	0.050	0.023
Bromodichloromethane	40	0.000	0.080	0.105	0.140	0.181	0.200	0.000	0.106	0.059
Bromoform	56	0.030	0.040	0.060	0.070	0.080	0.120	0.028	0.059	0.022
Bromomethane	56	0.099	0.110	0.170	0.200	0.220	4.100	0.088	0.237	0.531
Bromotrichloromethane	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Butane	56	1.235	2.933	4.641	5.785	9.760	55.710	1.030	6.846	10.184
Carbontetrachloride	56	0.580	0.620	0.655	0.680	0.700	0.740	0.340	0.643	0.069
Chlorobenzene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	56	0.074	0.090	0.120	0.140	0.185	0.290	0.070	0.126	0.048
Chloroform	56	0.080	0.103	0.145	0.193	0.234	0.330	0.080	0.156	0.063
Chloromethane	56	1.028	1.118	1.170	1.210	1.355	1.410	0.990	1.174	0.103
cis-1,2-Dichloroethylene	56	0.000	0.018	0.040	0.050	0.050	0.060	0.000	0.032	0.021
cis-1,2-Dimethylcyclohexa	51	0.000	0.040	0.060	0.090	0.140	0.270	0.000	0.070	0.054

Table 46 VOC Annual Statistics at Mississauga (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dichloropropene	56	0.000	0.000	0.000	0.000	0.010	0.100	0.000	0.004	0.015
cis-1,3-Dimethylcyclohexa	54	0.030	0.103	0.180	0.258	0.524	1.080	0.020	0.235	0.213
cis-1,4/t-1,3-Dimethylcycl	56	0.010	0.050	0.080	0.120	0.245	0.490	0.000	0.104	0.093
cis-2-Butene	56	0.050	0.070	0.100	0.170	0.216	6.060	0.040	0.232	0.797
cis-2-Heptene	56	0.000	0.000	0.040	0.060	0.075	0.140	0.000	0.036	0.036
cis-2-Hexene	56	0.000	0.000	0.000	0.033	0.060	0.990	0.000	0.035	0.132
cis-2-Pentene	56	0.050	0.086	0.105	0.141	0.190	5.970	0.030	0.221	0.784
cis-3-Methyl-2-pentene	56	0.000	0.000	0.030	0.050	0.070	1.120	0.000	0.051	0.148
cis-4-Methyl-2-pentene	56	0.000	0.000	0.000	0.100	0.160	1.270	0.000	0.075	0.182
Cyclohexane	56	0.060	0.218	0.375	0.513	1.380	2.390	0.040	0.525	0.547
Cyclohexene	56	0.000	0.000	0.000	0.050	0.070	0.160	0.000	0.029	0.038
Cyclopentane	56	0.070	0.188	0.275	0.415	0.700	1.720	0.010	0.377	0.332
Cyclopentene	54	0.020	0.023	0.040	0.060	0.070	1.100	0.000	0.064	0.146
Decane	56	0.063	0.140	0.265	0.457	0.640	1.090	0.040	0.341	0.262
Dibromochloromethane	53	0.006	0.030	0.060	0.070	0.080	0.120	0.000	0.052	0.029
Dibromomethane	56	0.050	0.060	0.110	0.120	0.130	0.170	0.000	0.095	0.035
Dichloromethane	56	0.255	0.480	0.735	1.343	2.165	2.840	0.220	1.000	0.699
Dodecane	56	0.028	0.058	0.100	0.150	0.215	0.330	0.020	0.115	0.076
EDB	56	0.008	0.030	0.060	0.070	0.080	0.120	0.000	0.054	0.026
Ethane	56	2.276	3.067	3.766	5.131	5.722	16.678	1.366	4.446	2.424
Ethylbenzene	56	0.170	0.425	0.800	1.350	1.731	2.490	0.110	0.927	0.605
Ethylbromide	56	0.000	0.000	0.030	0.040	0.050	0.060	0.000	0.025	0.022
Ethylene	56	0.750	1.295	1.813	2.613	3.485	7.478	0.508	2.095	1.239
Freon11	56	1.665	1.720	1.800	1.893	2.045	3.250	1.620	1.855	0.244
Freon113	50	0.689	0.716	0.740	0.778	0.821	0.880	0.506	0.748	0.061
Freon114	56	0.159	0.170	0.260	0.280	0.299	0.320	0.150	0.233	0.055
Freon12	56	2.575	2.680	2.760	2.943	3.090	4.032	2.570	2.835	0.253
Freon22	56	0.505	0.568	0.705	0.833	1.015	1.196	0.470	0.720	0.189
Heptane	56	0.158	0.425	0.725	1.163	2.250	3.250	0.100	0.969	0.803
Hexachlorobutadiene	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hexane	56	0.335	0.820	1.241	1.883	3.795	7.060	0.190	1.751	1.496
Hexylbenzene	52	0.000	0.000	0.000	0.033	0.050	0.090	0.000	0.018	0.025
Indane	56	0.020	0.049	0.070	0.102	0.130	0.190	0.020	0.077	0.043
Isobutane	56	0.750	1.555	2.380	3.105	5.350	24.060	0.470	3.551	4.554
iso-Butylbenzene	56	0.010	0.020	0.030	0.040	0.050	0.060	0.000	0.030	0.015
Isopentane	56	1.138	2.830	3.875	5.958	9.780	54.640	0.610	5.814	7.630
Isoprene	52	0.000	0.060	0.105	0.323	0.609	1.450	0.000	0.254	0.343

Table 46 VOC Annual Statistics at Mississauga (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
iso-Propylbenzene	56	0.020	0.040	0.060	0.080	0.105	0.160	0.020	0.066	0.034
m and p-Xylene	56	0.405	1.253	2.465	4.318	5.870	7.860	0.220	2.967	2.095
Methylcyclohexane	56	0.070	0.370	0.725	1.062	2.795	5.700	0.050	1.084	1.168
Methylcyclopentane	56	0.130	0.405	0.730	1.146	2.420	3.340	0.080	0.978	0.831
Naphthalene	30	0.065	0.100	0.153	0.225	0.372	1.011	0.040	0.207	0.184
n-Butylbenzene	56	0.010	0.029	0.040	0.060	0.080	0.110	0.000	0.045	0.025
Nonane	56	0.058	0.166	0.240	0.435	0.540	1.760	0.040	0.341	0.322
n-Propylbenzene	56	0.040	0.080	0.130	0.206	0.280	0.370	0.030	0.152	0.089
Octane	56	0.070	0.215	0.310	0.520	0.835	1.900	0.040	0.433	0.389
o-Xylene	56	0.140	0.375	0.749	1.285	1.835	2.400	0.090	0.879	0.606
p-Cymene	56	0.008	0.030	0.050	0.093	0.120	0.180	0.000	0.061	0.043
Pentane	56	0.818	1.800	2.570	3.743	7.360	18.930	0.410	3.583	3.420
Propane	56	1.785	2.985	4.520	6.488	9.105	86.090	1.610	6.651	11.233
Propylene	56	0.220	0.418	0.590	1.025	1.318	3.600	0.150	0.782	0.604
sec-Butylbenzene	56	0.010	0.020	0.030	0.043	0.060	0.080	0.010	0.033	0.019
Styrene	52	0.000	0.075	0.215	0.340	0.455	2.070	0.000	0.273	0.336
tert-Butylbenzene	56	0.000	0.000	0.000	0.030	0.035	0.050	0.000	0.013	0.016
Tetrachloroethylene	56	0.140	0.200	0.275	0.410	0.571	0.820	0.100	0.335	0.180
Toluene	56	0.983	2.535	4.282	7.147	11.450	24.700	0.520	5.534	4.586
trans-1,2-Dichloroethylene	54	0.000	0.010	0.032	0.040	0.040	0.050	0.000	0.027	0.018
trans-1,2-Dimethylcyclohe	56	0.000	0.078	0.120	0.178	0.360	0.830	0.000	0.164	0.157
trans-1,3-Dichloropropene	56	0.000	0.000	0.000	0.030	0.030	0.090	0.000	0.012	0.018
trans-1,4-Dimethylcyclohe	56	0.010	0.058	0.084	0.120	0.240	0.470	0.010	0.112	0.098
trans-2-Butene	56	0.050	0.070	0.105	0.173	0.252	5.610	0.040	0.232	0.738
trans-2-Heptene	56	0.000	0.000	0.038	0.050	0.060	0.120	0.000	0.031	0.025
trans-2-Hexene	56	0.000	0.020	0.040	0.050	0.070	1.170	0.000	0.056	0.153
trans-2-Octene	21	0.000	0.000	0.000	0.070	0.090	0.260	0.000	0.040	0.062
trans-2-Pentene	56	0.020	0.040	0.090	0.125	0.245	9.620	0.010	0.272	1.274
trans-3-Heptene	56	0.000	0.000	0.000	0.000	0.010	0.080	0.000	0.004	0.011
trans-3-Methyl-2-pentene	56	0.000	0.000	0.000	0.030	0.040	1.060	0.000	0.031	0.142
trans-4-Methyl-2-pentene	56	0.000	0.000	0.000	0.000	0.061	0.330	0.000	0.024	0.066
Trichloroethylene	56	0.070	0.103	0.200	0.375	0.655	1.110	0.030	0.294	0.258
Undecane	56	0.045	0.108	0.195	0.3725	0.485	0.86	0.030	0.254	0.188
Vinylchloride	56	0.000	0.013	0.030	0.040	0.040	0.060	0.000	0.026	0.015

Note: VOC sites are operated by Environment Canada

Table 47 VOC Annual Statistics at Ottawa (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	60	0.309	0.348	0.370	0.390	0.440	0.720	0.240	0.379	0.070
1,1,2,2-Tetrachloroethane	60	0.019	0.030	0.060	0.070	0.080	0.100	0.000	0.051	0.025
1,1,2-Trichloroethane	60	0.000	0.000	0.050	0.060	0.070	0.118	0.000	0.040	0.029
1,1-Dichloroethane	60	0.000	0.000	0.040	0.050	0.050	0.060	0.000	0.030	0.022
1,1-Dichloroethylene	60	0.000	0.030	0.076	0.090	0.090	0.110	0.000	0.062	0.031
1,2,3-Trimethylbenzene	60	0.030	0.080	0.130	0.183	0.270	0.600	0.010	0.143	0.097
1,2,4-Trimethylbenzene	59	0.080	0.288	0.497	0.730	1.036	2.170	0.020	0.539	0.377
1,2-Dichloroethane	60	0.052	0.070	0.079	0.080	0.090	0.125	0.050	0.075	0.014
1,2-Dichloropropane	57	0.000	0.000	0.000	0.050	0.054	0.070	0.000	0.021	0.025
1,2-Diethylbenzene	60	0.000	0.020	0.020	0.030	0.041	0.050	0.000	0.025	0.013
1,3,5-Trimethylbenzene	60	0.030	0.098	0.160	0.233	0.322	0.660	0.010	0.175	0.116
1,3-Butadiene	60	0.070	0.108	0.159	0.226	0.291	0.720	0.060	0.179	0.108
1,3-Dichlorobenzene	60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	60	0.020	0.030	0.046	0.056	0.074	0.140	0.010	0.047	0.024
1,4-Dichlorobutane	60	0.000	0.000	0.000	0.000	0.031	0.060	0.000	0.009	0.016
1,4-Diethylbenzene	60	0.030	0.070	0.106	0.140	0.221	0.370	0.020	0.116	0.069
1-Butene/Isobutene	60	0.299	0.400	0.610	0.833	1.243	2.760	0.270	0.723	0.456
1-Butyne	60	0.000	0.000	0.000	0.033	0.040	0.050	0.000	0.015	0.019
1-Decene	37	0.000	0.000	0.000	0.000	0.034	0.060	0.000	0.006	0.017
1-Heptene	40	0.049	0.088	0.110	0.170	0.201	0.290	0.000	0.124	0.060
1-Hexene	60	0.110	0.182	0.220	0.290	0.345	0.740	0.100	0.251	0.125
1-Methylcyclohexene	60	0.020	0.050	0.060	0.070	0.081	0.102	0.000	0.057	0.022
1-Methylcyclopentene	60	0.030	0.050	0.070	0.100	0.141	0.220	0.000	0.079	0.043
1-Nonene	40	0.000	0.000	0.000	0.000	0.040	0.080	0.000	0.009	0.019
1-Octene	40	0.000	0.000	0.040	0.050	0.051	0.073	0.000	0.032	0.023
1-Pentene	60	0.090	0.130	0.180	0.253	0.340	0.510	0.070	0.204	0.098
1-Propyne	57	0.050	0.070	0.100	0.130	0.154	0.370	0.000	0.104	0.054
2,2,3-Trimethylbutane	60	0.000	0.000	0.000	0.020	0.030	0.054	0.000	0.007	0.013
2,2,4-Trimethylpentane	60	0.110	0.210	0.351	0.463	0.705	1.050	0.090	0.381	0.229
2,2,5-Trimethylhexane	60	0.010	0.020	0.030	0.047	0.070	0.130	0.010	0.040	0.027
2,2-Dimethylbutane	60	0.109	0.160	0.225	0.323	0.437	0.730	0.080	0.263	0.146
2,2-Dimethylhexane	60	0.020	0.020	0.030	0.031	0.040	0.060	0.010	0.029	0.011
2,2-Dimethylpentane	60	0.000	0.030	0.050	0.060	0.081	0.120	0.000	0.049	0.027
2,2-Dimethylpropane	60	0.030	0.040	0.050	0.060	0.070	0.120	0.020	0.052	0.019
2,3,4-Trimethylpentane	60	0.040	0.090	0.150	0.183	0.245	0.430	0.030	0.151	0.085
2,3-Dimethylbutane	60	0.100	0.180	0.311	0.403	0.523	0.850	0.070	0.321	0.170
2,3-Dimethylpentane	60	0.090	0.130	0.205	0.260	0.340	0.530	0.060	0.214	0.099

Table 47 VOC Annual Statistics at Ottawa (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,4-Dimethylhexane	60	0.040	0.070	0.100	0.130	0.170	0.280	0.030	0.106	0.053
2,4-Dimethylpentane	60	0.040	0.080	0.120	0.160	0.230	0.320	0.000	0.129	0.069
2,5-Dimethylhexane	60	0.030	0.050	0.080	0.102	0.141	0.230	0.020	0.082	0.042
2-Ethyl-1-Butene	60	0.000	0.020	0.024	0.040	0.070	0.110	0.000	0.031	0.026
2-Ethyltoluene	60	0.040	0.090	0.145	0.200	0.264	0.540	0.030	0.152	0.088
2-Methyl-1-butene	60	0.000	0.148	0.225	0.353	0.473	0.920	0.000	0.267	0.187
2-Methyl-2-butene	59	0.109	0.215	0.360	0.485	0.662	1.300	0.090	0.384	0.245
2-Methylheptane	60	0.060	0.118	0.170	0.240	0.290	0.510	0.040	0.179	0.090
2-Methylhexane	60	0.140	0.238	0.390	0.553	0.632	1.170	0.110	0.417	0.204
2-Methylpentane	60	0.359	0.643	1.155	1.577	1.854	4.370	0.310	1.191	0.694
3,6-Dimethyloctane	60	0.000	0.000	0.029	0.040	0.053	0.080	0.000	0.025	0.023
3-Ethyltoluene	60	0.070	0.180	0.315	0.470	0.623	1.320	0.040	0.348	0.223
3-Methyl-1-pentene	60	0.000	0.000	0.040	0.070	0.090	0.110	0.000	0.036	0.037
3-Methylheptane	60	0.050	0.090	0.160	0.221	0.270	0.510	0.030	0.165	0.088
3-Methylhexane	60	0.150	0.278	0.440	0.640	0.701	1.320	0.130	0.457	0.226
3-Methylpentane	60	0.268	0.438	0.735	0.983	1.151	3.020	0.210	0.769	0.446
4-Ethyltoluene	60	0.050	0.116	0.169	0.243	0.330	0.660	0.030	0.191	0.111
4-Methyl-1-pentene	60	0.000	0.000	0.035	0.063	0.080	0.130	0.000	0.034	0.035
4-Methylheptane	60	0.000	0.038	0.070	0.091	0.120	0.220	0.000	0.070	0.042
Acetylene	60	0.621	1.048	1.553	2.493	3.101	8.176	0.488	1.899	1.202
Benzene	60	0.460	0.725	1.035	1.660	2.013	3.320	0.376	1.225	0.660
Benzylchloride	60	0.020	0.030	0.050	0.060	0.060	0.070	0.020	0.045	0.014
Bromodichloromethane	40	0.060	0.080	0.090	0.110	0.120	0.180	0.050	0.097	0.028
Bromoform	60	0.030	0.033	0.057	0.070	0.080	0.090	0.030	0.054	0.019
Bromomethane	60	0.090	0.110	0.170	0.190	0.201	0.230	0.086	0.154	0.044
Bromotrichloromethane	9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Butane	60	0.778	1.618	2.995	5.160	8.449	14.720	0.700	3.848	3.315
Carbontetrachloride	60	0.518	0.610	0.660	0.710	0.711	0.730	0.293	0.638	0.089
Chlorobenzene	60	0.000	0.000	0.000	0.000	0.041	0.060	0.000	0.007	0.017
Chloroethane	60	0.040	0.058	0.090	0.110	0.120	0.131	0.036	0.086	0.028
Chloroform	60	0.090	0.120	0.140	0.183	0.240	0.330	0.080	0.159	0.055
Chloromethane	60	1.026	1.090	1.140	1.193	1.254	1.560	0.810	1.155	0.119
cis-1,2-Dichloroethylene	60	0.000	0.020	0.040	0.050	0.051	0.060	0.000	0.034	0.020
cis-1,2-Dimethylcyclohexa	57	0.000	0.030	0.040	0.050	0.060	0.080	0.000	0.036	0.018
cis-1,3-Dichloropropene	60	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.001	0.002
cis-1,3-Dimethylcyclohexa	59	0.020	0.040	0.050	0.070	0.100	0.180	0.010	0.057	0.030
cis-1,4/t-1,3-Dimethylcycl	60	0.000	0.020	0.025	0.033	0.050	0.090	0.000	0.027	0.016

Table 47 VOC Annual Statistics at Ottawa (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-2-Butene	60	0.080	0.130	0.195	0.270	0.360	0.830	0.050	0.235	0.166
cis-2-Heptene	57	0.000	0.030	0.050	0.060	0.084	0.120	0.000	0.043	0.031
cis-2-Hexene	60	0.000	0.000	0.033	0.060	0.100	0.140	0.000	0.039	0.039
cis-2-Pentene	58	0.090	0.140	0.175	0.235	0.316	0.530	0.070	0.202	0.097
cis-3-Methyl-2-pentene	60	0.000	0.030	0.050	0.070	0.120	0.160	0.000	0.057	0.037
cis-4-Methyl-2-pentene	60	0.000	0.000	0.000	0.093	0.141	0.170	0.000	0.046	0.060
Cyclohexane	60	0.040	0.078	0.130	0.183	0.280	0.430	0.000	0.145	0.087
Cyclohexene	60	0.000	0.000	0.010	0.060	0.070	0.203	0.000	0.030	0.038
Cyclopentane	60	0.070	0.128	0.210	0.296	0.350	0.620	0.060	0.221	0.121
Cyclopentene	60	0.020	0.050	0.070	0.090	0.111	0.210	0.020	0.073	0.039
Decane	60	0.030	0.158	0.230	0.315	0.430	1.020	0.030	0.253	0.181
Dibromochloromethane	54	0.013	0.023	0.060	0.080	0.087	0.116	0.000	0.056	0.030
Dibromomethane	60	0.050	0.060	0.100	0.120	0.141	0.160	0.040	0.098	0.035
Dichloromethane	58	0.237	0.343	0.444	0.525	0.736	3.370	0.170	0.532	0.477
Dodecane	60	0.020	0.050	0.070	0.091	0.140	0.430	0.010	0.082	0.063
EDB	57	0.000	0.030	0.060	0.080	0.080	0.127	0.000	0.054	0.029
Ethane	60	1.485	2.207	2.766	3.725	4.519	5.542	1.135	2.978	1.103
Ethylbenzene	60	0.160	0.298	0.550	0.737	0.941	1.850	0.120	0.562	0.314
Ethylbromide	60	0.000	0.000	0.038	0.050	0.050	0.070	0.000	0.027	0.024
Ethylene	60	1.054	1.415	2.228	3.524	4.503	8.328	0.662	2.605	1.607
Freon11	60	1.587	1.690	1.775	1.840	1.974	2.340	1.250	1.786	0.183
Freon113	59	0.509	0.700	0.740	0.760	0.803	0.923	0.380	0.722	0.100
Freon114	60	0.148	0.170	0.270	0.280	0.300	0.330	0.140	0.237	0.059
Freon12	60	2.539	2.678	2.820	3.015	3.214	3.926	2.230	2.895	0.334
Freon22	60	0.509	0.588	0.695	0.838	0.950	1.260	0.470	0.731	0.188
Heptane	60	0.140	0.230	0.360	0.443	0.583	1.030	0.000	0.362	0.180
Hexane	60	0.260	0.459	0.740	0.925	1.071	2.030	0.230	0.726	0.322
Hexylbenzene	57	0.000	0.000	0.000	0.030	0.050	0.070	0.000	0.017	0.022
Indane	60	0.020	0.058	0.080	0.110	0.142	0.330	0.010	0.087	0.054
Isobutane	60	0.470	0.875	1.580	2.720	4.674	9.690	0.430	2.212	2.061
iso-Butylbenzene	60	0.010	0.020	0.030	0.030	0.040	0.060	0.010	0.028	0.011
Isopentane	60	0.959	1.715	3.205	4.755	5.866	9.950	0.860	3.476	2.036
Isoprene	54	0.057	0.133	0.227	0.490	1.202	2.270	0.050	0.442	0.478
iso-Propylbenzene	60	0.020	0.040	0.060	0.070	0.081	0.150	0.020	0.057	0.023
m and p-Xylene	60	0.400	0.765	1.540	2.220	2.751	5.570	0.330	1.586	0.944
Methylcyclohexane	60	0.050	0.108	0.165	0.243	0.345	0.550	0.040	0.190	0.109
Methylcyclopentane	60	0.139	0.250	0.400	0.553	0.735	1.220	0.110	0.433	0.234

Table 47 VOC Annual Statistics at Ottawa (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	No. of Samples	5%	25%	50%	75%	90%	Max.	Min.	Mean	Std. Dev.
Naphthalene	32	0.036	0.078	0.175	0.430	0.703	0.959	0.030	0.289	0.279
n-Butylbenzene	60	0.010	0.030	0.040	0.050	0.062	0.130	0.000	0.040	0.023
Nonane	60	0.040	0.128	0.165	0.210	0.281	0.630	0.020	0.176	0.104
n-Propylbenzene	60	0.040	0.080	0.130	0.163	0.215	0.430	0.030	0.131	0.069
Octane	60	0.050	0.098	0.160	0.193	0.283	0.470	0.030	0.163	0.086
o-Xylene	60	0.150	0.268	0.530	0.757	0.973	1.890	0.130	0.551	0.326
p-Cymene	60	0.000	0.020	0.040	0.061	0.090	0.360	0.000	0.049	0.051
Pentane	60	0.499	0.928	1.410	2.045	2.448	3.850	0.420	1.524	0.777
Propane	60	0.896	1.888	2.630	3.830	5.578	8.780	0.780	2.999	1.653
Propylene	60	0.329	0.448	0.700	0.993	1.310	3.240	0.290	0.799	0.486
sec-Butylbenzene	60	0.010	0.020	0.030	0.030	0.041	0.070	0.010	0.029	0.012
Styrene	54	0.020	0.074	0.110	0.160	0.230	0.470	0.000	0.125	0.085
tert-Butylbenzene	59	0.000	0.000	0.000	0.030	0.032	0.040	0.000	0.011	0.015
Tetrachloroethylene	60	0.080	0.203	0.381	0.683	1.156	3.900	0.070	0.582	0.639
Toluene	60	0.729	1.453	2.830	3.803	5.669	8.960	0.430	2.936	1.809
trans-1,2-Dichloroethylene	60	0.000	0.000	0.040	0.050	0.050	0.070	0.000	0.029	0.021
trans-1,2-Dimethylcyclohe	60	0.000	0.020	0.035	0.050	0.070	0.130	0.000	0.035	0.028
trans-1,3-Dichloropropene	57	0.000	0.000	0.000	0.020	0.030	0.040	0.000	0.009	0.013
trans-1,4-Dimethylcyclohe	60	0.010	0.020	0.030	0.036	0.050	0.090	0.000	0.027	0.017
trans-2-Butene	60	0.080	0.130	0.200	0.283	0.417	0.990	0.060	0.251	0.200
trans-2-Heptene	60	0.000	0.000	0.030	0.050	0.061	0.430	0.000	0.036	0.057
trans-2-Hexene	60	0.010	0.040	0.050	0.071	0.102	0.170	0.010	0.059	0.036
trans-2-Octene	20	0.000	0.000	0.000	0.030	0.040	0.040	0.000	0.013	0.017
trans-2-Pentene	60	0.030	0.094	0.155	0.303	0.402	0.780	0.020	0.212	0.165
trans-3-Heptene	60	0.000	0.000	0.000	0.010	0.020	0.020	0.000	0.006	0.008
trans-3-Methyl-2-pentene	60	0.000	0.000	0.030	0.063	0.081	0.150	0.000	0.036	0.039
trans-4-Methyl-2-pentene	57	0.000	0.000	0.000	0.000	0.040	0.090	0.000	0.009	0.019
Trichloroethylene	60	0.040	0.070	0.090	0.120	0.151	1.110	0.020	0.117	0.141
Undecane	60	0.030	0.098	0.170	0.240	0.332	0.930	0.020	0.198	0.167
Vinylchloride	60	0.000	0.010	0.030	0.030	0.040	0.040	0.000	0.023	0.012

Note: VOC sites are operated by Environment Canada.

Table 48 VOC Annual Statistics at Point Petre (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	58	0.380	0.453	0.530	0.578	0.736	1.510	0.350	0.558	0.186
1,1,2,2-Tetrachloroethane	58	0.015	0.023	0.050	0.060	0.070	0.140	0.000	0.046	0.024
1,1,2-Trichloroethane	58	0.000	0.020	0.040	0.050	0.060	0.128	0.000	0.036	0.025
1,1-Dichloroethane	58	0.000	0.000	0.037	0.040	0.050	0.050	0.000	0.028	0.019
1,1-Dichloroethylene	58	0.000	0.030	0.065	0.080	0.090	0.100	0.000	0.057	0.029
1,2,3-Trimethylbenzene	58	0.012	0.030	0.030	0.048	0.060	0.090	0.010	0.037	0.016
1,2,4-Trichlorobenzene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	58	0.039	0.070	0.090	0.122	0.179	0.310	0.030	0.100	0.055
1,2-Dichlorobenzene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	58	0.050	0.060	0.070	0.080	0.083	0.104	0.040	0.069	0.014
1,2-Dichloropropane	58	0.000	0.000	0.000	0.040	0.050	0.080	0.000	0.020	0.024
1,2-Diethylbenzene	58	0.000	0.010	0.020	0.020	0.030	0.040	0.000	0.018	0.010
1,3,5-Trimethylbenzene	58	0.010	0.024	0.030	0.040	0.053	0.100	0.010	0.035	0.017
1,3-Butadiene	58	0.009	0.030	0.040	0.040	0.050	0.130	0.000	0.036	0.020
1,3-Dichlorobenzene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	58	0.000	0.010	0.020	0.027	0.030	0.040	0.000	0.019	0.010
1,4-Dichlorobenzene	58	0.020	0.030	0.040	0.050	0.060	0.080	0.020	0.042	0.015
1,4-Dichlorobutane	58	0.000	0.000	0.000	0.030	0.033	0.050	0.000	0.011	0.016
1,4-Diethylbenzene	56	0.020	0.030	0.045	0.053	0.070	0.090	0.020	0.046	0.018
1-Butene/Isobutene	58	0.110	0.163	0.200	0.220	0.253	1.270	0.080	0.213	0.150
1-Butyne	58	0.000	0.000	0.000	0.020	0.030	0.030	0.000	0.010	0.013
1-Decene	39	0.000	0.000	0.000	0.040	0.040	0.560	0.000	0.031	0.089
1-Heptene	39	0.000	0.040	0.050	0.060	0.070	0.590	0.000	0.058	0.090
1-Hexene	58	0.000	0.110	0.131	0.158	0.170	0.920	0.000	0.128	0.119
1-Methylcyclohexene	58	0.000	0.030	0.040	0.050	0.063	0.110	0.000	0.039	0.022
1-Methylcyclopentene	58	0.000	0.020	0.030	0.040	0.040	0.070	0.000	0.029	0.015
1-Nonene	39	0.000	0.000	0.000	0.030	0.040	0.580	0.000	0.031	0.095
1-Octene	39	0.000	0.010	0.030	0.040	0.040	0.480	0.000	0.038	0.075
1-Pentene	58	0.034	0.050	0.070	0.078	0.090	0.600	0.000	0.071	0.074
1-Propyne	53	0.000	0.010	0.020	0.030	0.050	0.070	0.000	0.024	0.019
2,2,3-Trimethylbutane	58	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.001	0.003
2,2,4-Trimethylpentane	58	0.049	0.080	0.143	0.190	0.234	0.360	0.030	0.144	0.076
2,2,5-Trimethylhexane	58	0.000	0.010	0.013	0.020	0.030	0.030	0.000	0.015	0.009
2,2-Dimethylbutane	58	0.049	0.071	0.100	0.120	0.133	0.160	0.030	0.096	0.033
2,2-Dimethylhexane	58	0.000	0.010	0.020	0.020	0.030	0.037	0.000	0.016	0.010
2,2-Dimethylpentane	58	0.000	0.000	0.020	0.030	0.030	0.040	0.000	0.016	0.014
2,2-Dimethylpropane	58	0.020	0.030	0.040	0.050	0.060	0.060	0.000	0.040	0.015

Table 48 VOC Annual Statistics at Point Petre (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	No. of Samples	5%	25%	50%	75%	90%	Max.	Min.	Mean	Std. Dev.
2,3,4-Trimethylpentane	58	0.000	0.023	0.040	0.061	0.071	0.100	0.000	0.044	0.025
2,3-Dimethylbutane	58	0.000	0.054	0.080	0.100	0.140	0.150	0.000	0.079	0.040
2,3-Dimethylpentane	58	0.000	0.050	0.070	0.098	0.103	0.140	0.000	0.071	0.033
2,4-Dimethylhexane	58	0.000	0.020	0.040	0.050	0.060	0.080	0.000	0.037	0.019
2,4-Dimethylpentane	58	0.000	0.020	0.040	0.052	0.070	0.080	0.000	0.036	0.025
2,5-Dimethylhexane	58	0.000	0.020	0.020	0.030	0.050	0.064	0.000	0.027	0.015
2-Ethyl-1-Butene	58	0.000	0.000	0.000	0.000	0.000	0.040	0.000	0.001	0.006
2-Ethyltoluene	58	0.020	0.030	0.040	0.050	0.060	0.080	0.010	0.039	0.015
2-Methyl-1-butene	58	0.000	0.000	0.040	0.060	0.070	0.280	0.000	0.034	0.044
2-Methyl-2-butene	57	0.030	0.040	0.050	0.050	0.060	0.220	0.020	0.049	0.025
2-Methylheptane	58	0.030	0.040	0.050	0.069	0.089	0.092	0.000	0.053	0.022
2-Methylhexane	58	0.000	0.060	0.085	0.130	0.147	0.210	0.000	0.091	0.047
2-Methylpentane	58	0.107	0.193	0.290	0.395	0.490	0.760	0.030	0.300	0.156
3,6-Dimethyloctane	58	0.000	0.000	0.000	0.020	0.023	0.080	0.000	0.010	0.016
3-Ethyltoluene	58	0.020	0.040	0.060	0.076	0.113	0.170	0.020	0.063	0.033
3-Methyl-1-pentene	58	0.000	0.000	0.000	0.030	0.040	0.120	0.000	0.013	0.022
3-Methylheptane	58	0.000	0.030	0.040	0.058	0.067	0.100	0.000	0.041	0.022
3-Methylhexane	58	0.000	0.050	0.100	0.150	0.169	0.240	0.000	0.099	0.061
3-Methylpentane	58	0.120	0.180	0.225	0.289	0.320	0.380	0.070	0.232	0.071
4-Ethyltoluene	58	0.020	0.040	0.055	0.070	0.090	0.120	0.020	0.057	0.024
4-Methyl-1-pentene	58	0.000	0.000	0.000	0.030	0.040	0.190	0.000	0.016	0.030
4-Methylheptane	58	0.000	0.000	0.010	0.020	0.030	0.730	0.000	0.024	0.095
Acetylene	58	0.324	0.520	0.720	1.048	1.221	1.568	0.181	0.766	0.332
Benzene	58	0.169	0.320	0.435	0.579	0.719	1.040	0.120	0.463	0.201
Benzylchloride	58	0.020	0.030	0.050	0.050	0.060	0.060	0.020	0.043	0.013
Bromodichloromethane	43	0.000	0.050	0.070	0.080	0.090	0.120	0.000	0.062	0.030
Bromoform	58	0.030	0.031	0.060	0.060	0.070	0.090	0.020	0.051	0.017
Bromomethane	58	0.090	0.110	0.161	0.188	0.200	0.230	0.084	0.154	0.042
Bromotrichloromethane	4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Butane	58	0.294	0.540	0.905	1.670	2.178	2.760	0.170	1.118	0.710
Carbontetrachloride	58	0.510	0.620	0.660	0.696	0.720	0.770	0.308	0.642	0.084
Chlorobenzene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	58	0.040	0.053	0.070	0.090	0.100	0.250	0.000	0.072	0.032
Chloroform	58	0.080	0.090	0.110	0.120	0.140	0.204	0.070	0.111	0.026
Chloromethane	58	0.990	1.093	1.150	1.208	1.310	1.510	0.930	1.159	0.114
cis-1,2-Dichloroethylene	58	0.000	0.000	0.040	0.040	0.050	0.072	0.000	0.030	0.022
cis-1,2-Dimethylcyclohexa	53	0.000	0.030	0.030	0.040	0.040	0.050	0.000	0.027	0.014

Table 48 VOC Annual Statistics at Point Petre (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dichloropropene	58	0.000	0.000	0.000	0.000	0.003	0.020	0.000	0.001	0.004
cis-1,3-Dimethylcyclohexa	56	0.000	0.010	0.020	0.030	0.035	0.050	0.000	0.021	0.011
cis-1,4/t-1,3-Dimethylcycl	58	0.000	0.000	0.010	0.010	0.020	0.020	0.000	0.008	0.007
cis-2-Butene	58	0.000	0.020	0.030	0.040	0.040	0.090	0.000	0.031	0.016
cis-2-Heptene	58	0.000	0.000	0.030	0.040	0.040	0.084	0.000	0.022	0.020
cis-2-Hexene	58	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.001	0.004
cis-2-Pentene	58	0.000	0.040	0.051	0.060	0.070	0.090	0.000	0.047	0.022
cis-3-Methyl-2-pentene	58	0.000	0.000	0.000	0.020	0.023	0.030	0.000	0.007	0.011
cis-4-Methyl-2-pentene	58	0.000	0.000	0.000	0.000	0.010	0.060	0.000	0.004	0.013
Cyclohexane	58	0.000	0.040	0.075	0.100	0.126	0.198	0.000	0.074	0.044
Cyclohexene	58	0.000	0.000	0.000	0.038	0.040	0.170	0.000	0.017	0.028
Cyclopentane	58	0.000	0.040	0.060	0.072	0.090	0.130	0.000	0.058	0.028
Cyclopentene	58	0.000	0.011	0.030	0.040	0.040	0.100	0.000	0.029	0.017
Decane	57	0.020	0.040	0.060	0.090	0.120	0.280	0.000	0.072	0.054
Dibromochloromethane	50	0.005	0.020	0.050	0.060	0.070	0.147	0.000	0.047	0.028
Dibromomethane	58	0.050	0.060	0.100	0.120	0.130	0.160	0.050	0.098	0.033
Dodecane	58	0.029	0.040	0.050	0.070	0.080	0.250	0.020	0.057	0.034
EDB	58	0.000	0.020	0.055	0.060	0.073	0.122	0.000	0.047	0.027
Ethane	58	1.054	1.834	2.479	3.074	4.021	5.433	0.924	2.597	1.072
Ethylbenzene	58	0.060	0.120	0.170	0.208	0.250	0.770	0.050	0.169	0.099
Ethylbromide	58	0.000	0.000	0.030	0.040	0.050	0.060	0.000	0.024	0.021
Ethylene	58	0.278	0.399	0.573	0.854	1.296	6.378	0.218	0.811	0.891
Freon11	58	1.729	1.849	1.975	2.145	2.312	2.760	1.720	2.016	0.231
Freon113	52	0.597	0.670	0.690	0.720	0.740	0.780	0.400	0.680	0.068
Freon114	58	0.150	0.170	0.250	0.260	0.280	0.290	0.140	0.225	0.049
Freon12	58	3.264	3.945	4.340	4.938	5.514	6.500	2.960	4.435	0.784
Freon22	58	0.462	0.505	0.580	0.628	0.673	0.910	0.450	0.580	0.089
Heptane	58	0.059	0.104	0.130	0.170	0.223	0.460	0.040	0.144	0.073
Hexachlorobutadiene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hexane	58	0.206	0.365	0.540	0.835	1.412	7.510	0.100	0.871	1.157
Hexylbenzene	53	0.000	0.000	0.000	0.020	0.030	0.050	0.000	0.012	0.015
Indane	58	0.010	0.020	0.030	0.033	0.040	0.060	0.010	0.029	0.011
Isobutane	58	0.156	0.300	0.470	0.775	1.041	1.310	0.120	0.545	0.317
iso-Butylbenzene	58	0.0097	0.010	0.020	0.020	0.030	0.040	0.000	0.018	0.008
Isopentane	58	0.340	0.649	0.878	1.278	1.485	2.573	0.290	0.990	0.471
Isoprene	56	0.000	0.030	0.050	0.103	0.210	0.660	0.000	0.093	0.125
iso-Propylbenzene	58	0.010	0.027	0.030	0.040	0.040	0.040	0.010	0.030	0.009

Table 48 VOC Annual Statistics at Point Petre (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
m and p-Xylene	58	0.110	0.250	0.359	0.448	0.536	1.380	0.090	0.363	0.197
Methylcyclohexane	58	0.020	0.040	0.050	0.079	0.090	0.120	0.000	0.057	0.028
Methylcyclopentane	58	0.050	0.100	0.150	0.192	0.269	0.710	0.030	0.170	0.122
Naphthalene	30	0.055	0.082	0.120	0.180	0.243	0.445	0.050	0.148	0.097
n-Butylbenzene	58	0.000	0.010	0.020	0.024	0.030	0.040	0.000	0.019	0.009
Nonane	58	0.020	0.040	0.050	0.064	0.080	0.350	0.000	0.060	0.051
n-Propylbenzene	58	0.020	0.030	0.040	0.050	0.060	0.080	0.010	0.042	0.015
Octane	58	0.030	0.050	0.060	0.080	0.100	0.360	0.020	0.069	0.046
o-Xylene	58	0.047	0.090	0.130	0.160	0.206	0.460	0.030	0.132	0.068
p-Cymene	58	0.000	0.020	0.035	0.065	0.090	0.130	0.000	0.041	0.035
Pentane	58	0.197	0.323	0.495	0.693	0.816	0.940	0.160	0.509	0.222
Propane	58	0.570	1.013	1.645	2.551	3.388	4.140	0.330	1.863	1.016
Propylene	58	0.100	0.137	0.165	0.208	0.296	3.110	0.080	0.237	0.398
sec-Butylbenzene	58	0.009	0.010	0.020	0.020	0.023	0.030	0.000	0.017	0.007
Styrene	56	0.000	0.030	0.040	0.060	0.070	0.350	0.000	0.046	0.049
tert-Butylbenzene	58	0.000	0.000	0.000	0.020	0.020	0.030	0.000	0.007	0.011
Tetrachloroethylene	58	0.129	0.170	0.235	0.290	0.350	0.730	0.100	0.247	0.104
Toluene	58	0.401	0.630	0.925	1.158	1.331	6.010	0.290	0.988	0.750
trans-1,2-Dichloroethylene	58	0.000	0.000	0.030	0.040	0.040	0.057	0.000	0.024	0.018
trans-1,2-Dimethylcyclohe	58	0.000	0.000	0.000	0.010	0.023	0.030	0.000	0.006	0.010
trans-1,3-Dichloropropene	58	0.000	0.000	0.000	0.020	0.020	0.060	0.000	0.009	0.013
trans-1,4-Dimethylcyclohe	58	0.000	0.000	0.010	0.010	0.020	0.040	0.000	0.010	0.009
trans-2-Butene	58	0.000	0.020	0.030	0.040	0.040	0.110	0.000	0.031	0.018
trans-2-Heptene	58	0.000	0.000	0.020	0.030	0.030	0.040	0.000	0.017	0.015
trans-2-Hexene	58	0.000	0.000	0.015	0.020	0.020	0.030	0.000	0.011	0.010
trans-2-Octene	19	0.000	0.000	0.000	0.000	0.012	0.030	0.000	0.003	0.008
trans-2-Pentene	58	0.000	0.009	0.020	0.030	0.030	0.070	0.000	0.018	0.013
trans-3-Heptene	58	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.002
trans-3-Methyl-2-pentene	58	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.002
trans-4-Methyl-2-pentene	58	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.001	0.004
Trichloroethylene	58	0.040	0.070	0.090	0.110	0.133	0.240	0.030	0.091	0.037
Undecane	57	0.062	0.080	0.100	0.130	0.230	1.220	0.040	0.147	0.172
Vinylchloride	58	0.000	0.011	0.029	0.030	0.030	0.040	0.000	0.021	0.011

Note: VOC sites are operated by Environment Canada.

Table 49 VOC Annual Statistics at Sarnia (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	53	0.266	0.340	0.370	0.400	0.438	0.530	0.240	0.367	0.058
1,1,2,2-Tetrachloroethane	53	0.000	0.022	0.060	0.070	0.080	0.100	0.000	0.049	0.027
1,1,2-Trichloroethane	53	0.000	0.020	0.050	0.060	0.060	0.080	0.000	0.039	0.025
1,1-Dichloroethane	53	0.000	0.000	0.040	0.050	0.060	0.070	0.000	0.030	0.025
1,1-Dichloroethylene	53	0.000	0.030	0.065	0.080	0.090	0.120	0.000	0.058	0.032
1,2,3-Trimethylbenzene	53	0.050	0.090	0.120	0.210	0.318	0.830	0.038	0.176	0.151
1,2,4-Trichlorobenzene	53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	53	0.182	0.360	0.480	0.790	1.316	3.660	0.152	0.686	0.614
1,2-Dichlorobenzene	53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	53	0.050	0.070	0.080	0.094	0.110	0.130	0.000	0.080	0.023
1,2-Dichloropropane	53	0.000	0.000	0.030	0.050	0.050	0.060	0.000	0.024	0.023
1,2-Diethylbenzene	53	0.011	0.020	0.030	0.040	0.048	0.090	0.000	0.031	0.017
1,3,5-Trimethylbenzene	53	0.060	0.120	0.162	0.270	0.436	1.190	0.032	0.226	0.200
1,3-Butadiene	53	0.052	0.080	0.160	0.452	0.970	2.230	0.040	0.366	0.443
1,3-Dichlorobenzene	53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	53	0.020	0.030	0.050	0.080	0.118	0.230	0.016	0.064	0.045
1,4-Dichlorobenzene	53	0.050	0.070	0.110	0.150	0.316	0.820	0.040	0.156	0.149
1,4-Dichlorobutane	53	0.000	0.000	0.000	0.020	0.030	0.050	0.000	0.008	0.014
1,4-Diethylbenzene	51	0.051	0.085	0.110	0.190	0.270	0.650	0.040	0.155	0.120
1-Butene/Isobutene	53	0.328	0.450	0.790	2.450	4.436	7.870	0.243	1.836	2.048
1-Butyne	53	0.000	0.000	0.000	0.030	0.030	0.050	0.000	0.013	0.015
1-Decene	34	0.000	0.000	0.050	0.083	0.127	0.820	0.000	0.076	0.147
1-Heptene	34	0.067	0.090	0.140	0.230	0.364	0.710	0.060	0.188	0.136
1-Hexene	53	0.136	0.200	0.330	0.570	1.192	9.080	0.000	0.810	1.673
1-Methylcyclohexene	53	0.028	0.040	0.050	0.060	0.078	0.110	0.000	0.054	0.021
1-Methylcyclopentene	53	0.027	0.050	0.060	0.090	0.136	0.240	0.000	0.072	0.046
1-Nonene	34	0.000	0.000	0.000	0.040	0.080	0.350	0.000	0.036	0.074
1-Octene	32	0.017	0.040	0.050	0.065	0.109	0.410	0.000	0.070	0.074
1-Pentene	53	0.086	0.110	0.170	0.320	0.400	0.800	0.070	0.229	0.167
1-Propyne	48	0.000	0.050	0.070	0.110	0.170	0.340	0.000	0.086	0.062
2,2,3-Trimethylbutane	53	0.000	0.000	0.000	0.020	0.040	0.080	0.000	0.011	0.020
2,2,4-Trimethylpentane	53	0.118	0.250	0.544	1.000	2.016	3.430	0.070	0.791	0.771
2,2,5-Trimethylhexane	53	0.010	0.020	0.036	0.060	0.098	0.150	0.000	0.046	0.033
2,2-Dimethylbutane	52	0.104	0.147	0.215	0.488	0.628	1.200	0.060	0.334	0.260
2,2-Dimethylhexane	53	0.000	0.020	0.030	0.040	0.050	0.100	0.000	0.032	0.018
2,2-Dimethylpentane	53	0.020	0.034	0.060	0.110	0.128	0.300	0.000	0.075	0.061
2,2-Dimethylpropane	53	0.030	0.050	0.060	0.100	0.158	0.220	0.020	0.079	0.048

Table 49 VOC Annual Statistics at Sarnia (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	53	0.052	0.100	0.190	0.300	0.520	1.000	0.030	0.249	0.220
2,3-Dimethylbutane	53	0.070	0.180	0.320	0.900	1.154	2.700	0.000	0.560	0.522
2,3-Dimethylpentane	53	0.097	0.170	0.260	0.430	0.624	1.340	0.070	0.331	0.237
2,4-Dimethylhexane	53	0.045	0.070	0.130	0.190	0.278	0.640	0.020	0.157	0.127
2,4-Dimethylpentane	53	0.042	0.080	0.150	0.290	0.448	0.830	0.000	0.204	0.170
2,5-Dimethylhexane	53	0.030	0.050	0.094	0.150	0.230	0.460	0.028	0.121	0.096
2-Ethyl-1-Butene	53	0.000	0.010	0.020	0.050	0.080	0.190	0.000	0.036	0.037
2-Ethyltoluene	53	0.060	0.100	0.134	0.240	0.340	0.950	0.050	0.186	0.155
2-Methyl-1-butene	53	0.036	0.120	0.250	0.510	0.718	1.900	0.000	0.368	0.390
2-Methyl-2-butene	53	0.100	0.160	0.260	0.510	0.722	1.890	0.070	0.386	0.369
2-Methylheptane	53	0.062	0.110	0.160	0.338	0.438	0.950	0.040	0.248	0.204
2-Methylhexane	53	0.116	0.250	0.430	0.800	1.084	2.780	0.100	0.599	0.502
2-Methylpentane	53	0.272	0.760	1.290	3.440	4.924	10.310	0.230	2.237	2.073
3,6-Dimethyloctane	53	0.000	0.000	0.020	0.040	0.080	0.370	0.000	0.037	0.064
3-Ethyltoluene	53	0.126	0.230	0.300	0.520	0.868	2.400	0.100	0.436	0.387
3-Methyl-1-pentene	53	0.000	0.000	0.030	0.080	0.100	0.150	0.000	0.041	0.042
3-Methylheptane	53	0.050	0.100	0.160	0.300	0.408	0.930	0.040	0.216	0.180
3-Methylhexane	53	0.130	0.250	0.470	0.890	1.182	3.090	0.110	0.640	0.569
3-Methylpentane	53	0.220	0.536	0.990	2.320	3.782	6.720	0.160	1.595	1.479
4-Ethyltoluene	53	0.082	0.134	0.160	0.280	0.440	1.240	0.070	0.236	0.197
4-Methyl-1-pentene	53	0.000	0.000	0.040	0.060	0.090	0.150	0.000	0.039	0.038
4-Methylheptane	53	0.006	0.040	0.060	0.140	0.168	0.410	0.000	0.091	0.081
Acetylene	53	0.745	1.150	1.445	2.218	3.016	6.472	0.561	1.803	1.042
Benzene	53	0.506	0.660	1.140	1.850	3.908	11.130	0.306	1.806	1.915
Benzylchloride	53	0.020	0.030	0.050	0.060	0.070	0.140	0.020	0.049	0.021
Bromodichloromethane	38	0.000	0.080	0.090	0.110	0.126	0.190	0.000	0.089	0.041
Bromoform	53	0.020	0.030	0.050	0.063	0.078	0.100	0.020	0.051	0.021
Bromomethane	53	0.090	0.110	0.150	0.180	0.210	0.250	0.088	0.152	0.045
Bromotrichloromethane	5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Butane	53	0.876	2.260	4.150	8.610	12.264	35.050	0.497	6.348	6.523
Carbontetrachloride	53	0.506	0.580	0.620	0.680	0.710	0.750	0.420	0.620	0.075
Chlorobenzene	53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	53	0.041	0.060	0.080	0.110	0.128	0.161	0.000	0.084	0.032
Chloroform	53	0.079	0.090	0.120	0.150	0.167	0.390	0.070	0.125	0.051
Chloromethane	53	0.994	1.180	1.290	2.150	4.379	10.660	0.880	2.276	2.175
cis-1,2-Dichloroethylene	53	0.000	0.020	0.040	0.050	0.060	0.070	0.000	0.034	0.023
cis-1,2-Dimethylcyclohexa	48	0.000	0.030	0.040	0.060	0.083	0.110	0.000	0.044	0.026

Table 49 VOC Annual Statistics at Sarnia (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dichloropropene	53	0.000	0.000	0.000	0.000	0.010	0.740	0.000	0.025	0.123
cis-1,3-Dimethylcyclohexa	51	0.025	0.040	0.060	0.113	0.170	0.420	0.010	0.095	0.087
cis-1,4/t-1,3-Dimethylcycl	53	0.000	0.020	0.020	0.040	0.076	0.170	0.000	0.037	0.035
cis-2-Butene	53	0.060	0.080	0.180	0.420	0.912	3.280	0.052	0.362	0.526
cis-2-Heptene	53	0.000	0.000	0.060	0.090	0.120	0.250	0.000	0.062	0.059
cis-2-Hexene	53	0.000	0.020	0.040	0.080	0.100	0.190	0.000	0.050	0.046
cis-2-Pentene	53	0.070	0.110	0.150	0.260	0.355	0.960	0.060	0.215	0.174
cis-3-Methyl-2-pentene	53	0.000	0.030	0.050	0.090	0.110	0.250	0.000	0.064	0.051
cis-4-Methyl-2-pentene	53	0.000	0.000	0.000	0.110	0.213	0.420	0.000	0.068	0.098
Cyclohexane	53	0.040	0.120	0.350	3.158	6.574	20.920	0.030	2.548	4.548
Cyclohexene	53	0.000	0.000	0.040	0.060	0.070	0.120	0.000	0.035	0.033
Cyclopentane	53	0.060	0.150	0.340	0.690	1.116	2.700	0.050	0.480	0.491
Cyclopentene	53	0.022	0.040	0.060	0.080	0.100	0.210	0.000	0.064	0.041
Decane	53	0.040	0.100	0.200	0.390	0.980	5.390	0.030	0.497	0.919
Dibromochloromethane	43	0.000	0.020	0.060	0.070	0.080	0.090	0.000	0.046	0.027
Dibromomethane	53	0.040	0.060	0.110	0.120	0.130	0.150	0.040	0.094	0.034
Dichloromethane	53	0.212	0.272	0.346	0.460	0.700	1.500	0.190	0.425	0.267
Dodecane	53	0.026	0.070	0.110	0.260	0.398	0.910	0.020	0.194	0.200
EDB	53	0.000	0.030	0.060	0.070	0.080	0.090	0.000	0.051	0.026
Ethane	53	2.340	3.313	5.328	9.746	11.348	16.577	1.567	6.488	3.673
Ethylbenzene	53	0.167	0.320	0.510	1.080	1.348	3.710	0.140	0.736	0.640
Ethylbromide	53	0.000	0.000	0.030	0.040	0.060	0.068	0.000	0.028	0.023
Ethylene	53	0.948	1.351	3.106	7.026	21.522	52.368	0.734	6.940	9.666
Freon11	53	1.356	1.680	1.750	1.870	2.118	2.360	1.130	1.773	0.243
Freon113	49	0.526	0.680	0.760	0.810	0.956	1.170	0.450	0.759	0.143
Freon114	53	0.150	0.180	0.240	0.270	0.290	0.350	0.136	0.230	0.056
Freon12	53	2.274	2.770	2.910	3.180	3.472	4.210	2.120	2.980	0.443
Freon22	53	0.470	0.540	0.626	0.740	0.972	1.760	0.418	0.691	0.232
Heptane	53	0.133	0.250	0.380	0.704	0.926	2.200	0.100	0.563	0.489
Hexachlorobutadiene	53	0.000	0.000	0.000	0.000	0.000	0.180	0.000	0.003	0.025
Hexane	53	0.258	0.630	1.150	2.620	4.870	8.980	0.210	1.996	2.091
Hexylbenzene	46	0.000	0.000	0.000	0.038	0.065	0.120	0.000	0.022	0.031
Indane	53	0.038	0.060	0.070	0.110	0.168	0.400	0.030	0.095	0.065
Isobutane	53	0.438	0.940	2.080	6.209	8.364	19.190	0.240	3.744	4.071
iso-Butylbenzene	53	0.010	0.020	0.030	0.040	0.050	0.110	0.000	0.032	0.019
Isopentane	52	0.895	2.083	4.480	11.648	20.332	31.210	0.730	8.011	7.914
Isoprene	49	0.040	0.060	0.140	0.470	0.766	2.814	0.000	0.309	0.459

Table 49 VOC Annual Statistics at Sarnia (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
iso-Propylbenzene	53	0.030	0.040	0.050	0.090	0.110	0.240	0.020	0.068	0.039
m and p-Xylene	53	0.433	0.900	1.440	2.640	3.328	11.950	0.360	1.936	1.838
Methylcyclohexane	53	0.047	0.130	0.200	0.430	0.650	1.810	0.040	0.357	0.385
Methylcyclopentane	53	0.110	0.240	0.470	1.042	1.404	3.040	0.080	0.736	0.715
Naphthalene	27	0.066	0.140	0.220	0.328	0.529	1.229	0.040	0.279	0.245
n-Butylbenzene	53	0.020	0.030	0.040	0.060	0.088	0.200	0.018	0.054	0.038
Nonane	53	0.040	0.084	0.180	0.380	0.698	1.880	0.030	0.317	0.408
n-Propylbenzene	53	0.059	0.090	0.120	0.210	0.300	0.770	0.040	0.164	0.127
Octane	53	0.060	0.100	0.170	0.350	0.670	1.520	0.050	0.300	0.319
o-Xylene	53	0.162	0.310	0.484	0.810	1.174	3.190	0.140	0.632	0.536
p-Cymene	53	0.000	0.020	0.030	0.060	0.080	0.150	0.000	0.041	0.034
Pentane	53	0.526	1.050	2.490	4.780	6.929	19.040	0.470	3.497	3.575
Propane	53	1.166	2.180	5.122	12.060	17.850	51.670	0.820	8.234	8.825
Propylene	53	0.290	0.434	1.090	2.710	4.288	9.830	0.180	1.850	1.946
sec-Butylbenzene	53	0.012	0.020	0.030	0.040	0.058	0.130	0.000	0.034	0.023
Styrene	49	0.000	0.060	0.110	0.220	0.466	0.820	0.000	0.178	0.182
tert-Butylbenzene	53	0.000	0.000	0.000	0.020	0.030	0.070	0.000	0.012	0.016
Tetrachloroethylene	53	0.098	0.140	0.210	0.320	0.496	3.300	0.080	0.340	0.496
Toluene	53	0.641	1.570	2.450	5.190	9.638	19.440	0.550	4.091	4.142
trans-1,2-Dichloroethylene	53	0.000	0.000	0.030	0.040	0.050	0.060	0.000	0.025	0.019
trans-1,2-Dimethylcyclohe	53	0.000	0.022	0.050	0.080	0.146	0.370	0.000	0.068	0.075
trans-1,3-Dichloropropene	53	0.000	0.000	0.000	0.020	0.030	0.610	0.000	0.029	0.105
trans-1,4-Dimethylcyclohe	53	0.010	0.020	0.030	0.051	0.080	0.210	0.000	0.043	0.042
trans-2-Butene	53	0.060	0.080	0.180	0.420	0.938	4.290	0.000	0.398	0.659
trans-2-Heptene	53	0.000	0.000	0.030	0.040	0.060	0.080	0.000	0.028	0.023
trans-2-Hexene	53	0.014	0.030	0.050	0.100	0.118	0.230	0.000	0.066	0.050
trans-2-Octene	19	0.000	0.000	0.000	0.005	0.052	0.150	0.000	0.015	0.037
trans-2-Pentene	53	0.040	0.060	0.130	0.310	0.444	1.190	0.000	0.211	0.225
trans-3-Heptene	53	0.000	0.000	0.000	0.010	0.020	0.030	0.000	0.006	0.009
trans-3-Methyl-2-pentene	53	0.000	0.000	0.030	0.080	0.110	0.220	0.000	0.046	0.054
trans-4-Methyl-2-pentene	53	0.000	0.000	0.000	0.000	0.062	0.250	0.000	0.019	0.054
Trichloroethylene	53	0.050	0.070	0.110	0.150	0.193	0.840	0.030	0.133	0.120
Undecane	53	0.040	0.084	0.200	0.370	0.540	3.000	0.030	0.366	0.588
Vinylchloride	53	0.000	0.020	0.030	0.050	0.080	0.390	0.000	0.046	0.058

Note: VOC sites are operated by Environment Canada.

Table 50 VOC Annual Statistics at Simcoe (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	No. of Samples	5%	25%	50%	75%	90%	Max.	Min.	Mean	Std. Dev.
1,1,1-Trichloroethane	58	0.350	0.370	0.390	0.420	0.460	6.100	0.280	0.497	0.750
1,1,2,2-Tetrachloroethane	58	0.020	0.030	0.050	0.060	0.070	0.080	0.000	0.048	0.020
1,1,2-Trichloroethane	58	0.000	0.023	0.045	0.060	0.060	0.100	0.000	0.039	0.025
1,1-Dichloroethane	58	0.000	0.003	0.030	0.050	0.050	0.460	0.000	0.036	0.060
1,1-Dichloroethylene	58	0.000	0.040	0.070	0.080	0.090	0.110	0.000	0.060	0.030
1,2,3-Trimethylbenzene	58	0.020	0.040	0.050	0.080	0.120	0.190	0.020	0.061	0.035
1,2,4-Trichlorobenzene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	58	0.059	0.113	0.180	0.270	0.385	0.700	0.040	0.211	0.137
1,2-Dichlorobenzene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	58	0.050	0.065	0.070	0.080	0.090	0.130	0.042	0.074	0.015
1,2-Dichloropropane	58	0.000	0.000	0.000	0.040	0.050	0.080	0.000	0.018	0.025
1,2-Diethylbenzene	58	0.010	0.010	0.020	0.030	0.040	0.054	0.000	0.021	0.012
1,3,5-Trimethylbenzene	58	0.020	0.040	0.060	0.090	0.133	0.240	0.010	0.074	0.049
1,3-Butadiene	58	0.025	0.040	0.060	0.070	0.080	0.110	0.020	0.057	0.020
1,3-Dichlorobenzene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	58	0.010	0.020	0.027	0.040	0.050	0.060	0.010	0.029	0.013
1,4-Dichlorobenzene	58	0.020	0.035	0.050	0.058	0.073	0.160	0.020	0.049	0.024
1,4-Dichlorobutane	58	0.000	0.000	0.000	0.030	0.040	0.050	0.000	0.014	0.017
1,4-Diethylbenzene	58	0.020	0.040	0.060	0.080	0.100	0.170	0.020	0.062	0.030
1-Butene/Isobutene	58	0.210	0.273	0.325	0.380	0.503	0.710	0.180	0.342	0.101
1-Butyne	58	0.000	0.000	0.000	0.030	0.030	0.040	0.000	0.011	0.015
1-Decene	39	0.000	0.000	0.000	0.050	0.062	0.140	0.000	0.024	0.032
1-Heptene	39	0.000	0.050	0.060	0.070	0.100	0.170	0.000	0.060	0.034
1-Hexene	58	0.000	0.103	0.150	0.180	0.200	0.230	0.000	0.129	0.070
1-Methylcyclohexene	58	0.000	0.030	0.040	0.050	0.063	0.070	0.000	0.039	0.021
1-Methylcyclopentene	58	0.009	0.021	0.038	0.048	0.050	0.060	0.000	0.034	0.015
1-Nonene	39	0.000	0.000	0.000	0.030	0.042	0.080	0.000	0.014	0.022
1-Octene	37	0.000	0.020	0.030	0.040	0.054	0.070	0.000	0.032	0.019
1-Pentene	58	0.039	0.060	0.080	0.098	0.110	0.160	0.000	0.079	0.030
1-Propyne	53	0.000	0.000	0.040	0.050	0.068	0.080	0.000	0.033	0.026
2,2,3-Trimethylbutane	58	0.000	0.000	0.000	0.000	0.003	0.030	0.000	0.002	0.005
2,2,4-Trimethylpentane	58	0.060	0.150	0.202	0.250	0.320	0.520	0.050	0.208	0.095
2,2,5-Trimethylhexane	58	0.000	0.020	0.020	0.030	0.040	0.140	0.000	0.025	0.020
2,2-Dimethylbutane	58	0.049	0.090	0.112	0.140	0.173	0.330	0.030	0.120	0.050
2,2-Dimethylhexane	58	0.000	0.010	0.020	0.030	0.030	0.040	0.000	0.018	0.011
2,2-Dimethylpentane	58	0.000	0.000	0.030	0.040	0.043	0.100	0.000	0.024	0.021
2,2-Dimethylpropane	58	0.020	0.037	0.050	0.060	0.070	0.090	0.000	0.049	0.019

Table 50 VOC Annual Statistics at Simcoe (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	58	0.020	0.050	0.070	0.090	0.100	0.180	0.020	0.072	0.031
2,3-Dimethylbutane	58	0.039	0.090	0.115	0.180	0.194	0.620	0.030	0.137	0.095
2,3-Dimethylpentane	58	0.030	0.080	0.110	0.140	0.180	0.280	0.000	0.112	0.055
2,4-Dimethylhexane	58	0.020	0.040	0.059	0.070	0.080	0.120	0.020	0.056	0.020
2,4-Dimethylpentane	58	0.000	0.040	0.060	0.080	0.092	0.190	0.000	0.058	0.035
2,5-Dimethylbenzaldehyde	43	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2,5-Dimethylhexane	58	0.020	0.024	0.040	0.050	0.060	0.102	0.000	0.040	0.020
2-Ethyl-1-Butene	58	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.001	0.003
2-Ethyltoluene	58	0.020	0.042	0.060	0.090	0.110	0.200	0.020	0.069	0.037
2-Methyl-1-butene	57	0.000	0.000	0.070	0.090	0.114	0.250	0.000	0.063	0.050
2-Methyl-2-butene	58	0.040	0.053	0.070	0.100	0.120	0.270	0.030	0.079	0.038
2-Methylheptane	56	0.030	0.050	0.077	0.100	0.121	0.190	0.020	0.078	0.033
2-Methylhexane	58	0.049	0.100	0.141	0.190	0.263	0.450	0.000	0.154	0.087
2-Methylpentane	58	0.140	0.320	0.407	0.570	0.789	1.680	0.130	0.503	0.324
2-Pentanone/Isovaleraldeh	43	0.000	0.000	0.064	0.131	0.196	0.351	0.000	0.085	0.092
3,6-Dimethyloctane	58	0.000	0.000	0.000	0.018	0.020	0.050	0.000	0.007	0.012
3-Ethyltoluene	58	0.039	0.080	0.110	0.180	0.223	0.450	0.020	0.138	0.092
3-Methyl-1-pentene	58	0.000	0.000	0.000	0.038	0.050	0.060	0.000	0.017	0.021
3-Methylheptane	58	0.017	0.040	0.060	0.080	0.097	0.180	0.000	0.060	0.032
3-Methylhexane	58	0.000	0.100	0.150	0.218	0.311	0.560	0.000	0.168	0.107
3-Methylpentane	58	0.107	0.220	0.267	0.370	0.522	1.070	0.090	0.335	0.218
4-Ethyltoluene	58	0.030	0.060	0.080	0.118	0.153	0.270	0.030	0.093	0.052
4-Methyl-1-pentene	58	0.000	0.000	0.000	0.040	0.050	0.060	0.000	0.019	0.022
4-Methylheptane	58	0.000	0.000	0.030	0.036	0.050	0.090	0.000	0.024	0.019
Acetaldehyde	43	0.449	0.665	0.913	1.308	1.594	2.544	0.337	1.019	0.498
Acetone	43	0.999	1.733	2.769	3.788	4.445	6.139	0.258	2.840	1.384
Acetylene	58	0.429	0.676	0.959	1.266	2.017	4.064	0.269	1.130	0.735
Acrolein	43	0.000	0.000	0.000	0.035	0.051	0.136	0.000	0.018	0.028
Benzaldehyde	43	0.000	0.052	0.082	0.117	0.169	0.285	0.000	0.091	0.059
Benzene	58	0.279	0.443	0.590	0.758	0.946	1.240	0.190	0.624	0.246
Benzylchloride	58	0.000	0.030	0.040	0.050	0.060	0.070	0.000	0.039	0.019
Bromodichloromethane	42	0.000	0.053	0.080	0.080	0.090	0.110	0.000	0.067	0.027
Bromoform	58	0.025	0.040	0.050	0.060	0.070	0.090	0.020	0.051	0.017
Bromomethane	58	0.089	0.110	0.160	0.190	0.210	0.300	0.080	0.157	0.047
Bromotrichloromethane	8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Butane	58	0.618	1.033	1.585	2.319	3.726	7.340	0.380	1.925	1.288
Carbontetrachloride	58	0.567	0.623	0.670	0.690	0.710	0.750	0.310	0.650	0.076
Chlorobenzene	58	0.000	0.000	0.000	0.000	0.012	0.080	0.000	0.006	0.018

Table 50 VOC Annual Statistics at Simcoe (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
Chloroethane	58	0.035	0.050	0.070	0.090	0.100	0.110	0.000	0.070	0.025
Chloroform	58	0.079	0.090	0.110	0.120	0.143	0.260	0.070	0.113	0.031
Chloromethane	58	0.970	1.100	1.160	1.230	1.330	1.530	0.910	1.167	0.130
cis-1,2-Dichloroethylene	58	0.000	0.000	0.030	0.040	0.050	0.060	0.000	0.028	0.021
cis-1,2-Dimethylcyclohexa	53	0.000	0.020	0.030	0.040	0.050	0.060	0.000	0.031	0.015
cis-1,3-Dichloropropene	58	0.000	0.000	0.000	0.010	0.183	2.920	0.000	0.113	0.423
cis-1,3-Dimethylcyclohexa	56	0.010	0.030	0.040	0.050	0.065	0.120	0.010	0.040	0.022
cis-1,4/t-1,3-Dimethylcycl	58	0.000	0.010	0.011	0.020	0.020	0.050	0.000	0.014	0.011
cis-2-Butene	58	0.020	0.040	0.050	0.060	0.080	0.300	0.000	0.057	0.039
cis-2-Heptene	58	0.000	0.000	0.040	0.050	0.060	0.110	0.000	0.031	0.028
cis-2-Hexene	58	0.000	0.000	0.000	0.000	0.020	0.030	0.000	0.004	0.009
cis-2-Pentene	58	0.009	0.050	0.070	0.080	0.090	0.150	0.000	0.063	0.027
cis-3-Methyl-2-pentene	58	0.000	0.000	0.000	0.020	0.030	0.050	0.000	0.011	0.015
cis-4-Methyl-2-pentene	58	0.000	0.000	0.000	0.000	0.050	0.140	0.000	0.011	0.028
Crotonaldehyde	43	0.000	0.000	0.000	0.067	0.102	0.241	0.000	0.038	0.055
Cyclohexane	58	0.000	0.050	0.080	0.128	0.190	8.730	0.000	0.262	1.138
Cyclohexene	58	0.000	0.000	0.020	0.040	0.050	0.060	0.000	0.021	0.022
Cyclopentane	58	0.030	0.070	0.089	0.119	0.140	0.370	0.030	0.099	0.057
Cyclopentene	58	0.009	0.020	0.040	0.040	0.050	0.060	0.000	0.032	0.016
Decane	58	0.049	0.070	0.108	0.140	0.179	0.600	0.040	0.121	0.085
Dibromochloromethane	50	0.009	0.029	0.050	0.070	0.080	0.120	0.000	0.048	0.026
Dibromomethane	58	0.040	0.063	0.100	0.120	0.133	0.140	0.000	0.094	0.035
Dichloromethane	58	0.190	0.260	0.300	0.340	0.532	2.450	0.180	0.382	0.333
Dodecane	58	0.030	0.050	0.060	0.080	0.093	0.190	0.028	0.066	0.028
EDB	58	0.009	0.030	0.050	0.070	0.073	0.110	0.000	0.049	0.024
Ethane	58	1.551	2.595	3.195	4.558	5.202	10.474	0.592	3.636	1.849
Ethylbenzene	58	0.069	0.133	0.192	0.250	0.323	0.890	0.050	0.214	0.129
Ethylbromide	58	0.000	0.000	0.030	0.040	0.050	0.060	0.000	0.024	0.020
Ethylene	58	0.452	0.639	0.858	1.289	1.686	3.950	0.386	1.061	0.623
Formaldehyde	43	0.566	1.037	1.383	2.197	2.921	5.675	0.552	1.685	1.049
Freon11	58	1.639	1.720	1.833	1.910	2.043	2.710	1.550	1.867	0.237
Freon113	54	1.089	1.280	1.377	1.578	1.977	2.670	0.920	1.478	0.344
Freon114	58	0.150	0.190	0.250	0.270	0.300	0.350	0.134	0.235	0.057
Freon12	58	2.589	2.751	2.870	3.158	3.524	4.370	2.430	2.982	0.388
Freon22	58	0.470	0.570	0.635	0.710	0.790	1.470	0.434	0.673	0.190
Heptane	58	0.050	0.143	0.185	0.228	0.333	0.460	0.040	0.196	0.091
Hexachlorobutadiene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hexanal	43	0.000	0.000	0.050	0.109	0.151	0.321	0.000	0.068	0.078

Table 50 VOC Annual Statistics at Simcoe (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
Hexane	58	0.140	0.255	0.325	0.484	0.663	1.990	0.100	0.421	0.326
Hexylbenzene	53	0.000	0.000	0.000	0.020	0.060	0.080	0.000	0.016	0.024
Indane	58	0.019	0.030	0.040	0.050	0.060	0.090	0.010	0.038	0.016
Isobutane	58	0.284	0.450	0.690	1.163	1.695	2.840	0.180	0.892	0.579
iso-Butylbenzene	58	0.010	0.010	0.020	0.030	0.030	0.050	0.000	0.020	0.011
Isopentane	58	0.467	0.943	1.385	1.805	2.310	9.020	0.370	1.552	1.220
Isoprene	56	0.000	0.038	0.060	0.245	0.555	1.720	0.000	0.223	0.351
iso-Propylbenzene	58	0.019	0.030	0.040	0.048	0.050	0.090	0.010	0.037	0.015
m and p-Xylene	58	0.136	0.300	0.410	0.570	0.795	2.160	0.090	0.487	0.328
MEK	43	0.220	0.340	0.527	0.687	0.961	2.120	0.167	0.598	0.381
Methylcyclohexane	58	0.029	0.060	0.084	0.129	0.153	0.250	0.010	0.098	0.051
Methylcyclopentane	58	0.049	0.100	0.140	0.190	0.264	0.710	0.040	0.163	0.111
MIBK	43	0.000	0.000	0.000	0.000	0.086	0.200	0.000	0.019	0.043
m-Tolualdehyde	43	0.000	0.000	0.000	0.000	0.039	0.168	0.000	0.013	0.040
Naphthalene	30	0.060	0.090	0.130	0.241	0.472	0.740	0.050	0.205	0.175
n-Butylbenzene	58	0.010	0.020	0.020	0.030	0.040	0.070	0.000	0.025	0.013
Nonane	58	0.029	0.050	0.075	0.090	0.133	0.370	0.020	0.082	0.053
n-Propylbenzene	58	0.020	0.049	0.060	0.080	0.100	0.190	0.020	0.065	0.032
Octane	58	0.029	0.070	0.080	0.108	0.143	0.340	0.020	0.093	0.054
o-Tolualdehyde	43	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
o-Xylene	58	0.059	0.105	0.155	0.228	0.273	0.780	0.040	0.178	0.113
p-Cymene	58	0.000	0.010	0.025	0.040	0.060	0.090	0.000	0.027	0.022
Pentane	58	0.306	0.603	0.785	1.000	1.327	8.600	0.000	0.991	1.158
Propane	58	0.997	1.543	2.295	3.550	4.931	8.100	0.640	2.798	1.745
Propionaldehyde	43	0.096	0.165	0.247	0.328	0.402	0.609	0.060	0.257	0.127
Propylene	58	0.135	0.190	0.255	0.320	0.463	0.650	0.110	0.281	0.129
p-Tolualdehyde	43	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
sec-Butylbenzene	58	0.010	0.010	0.020	0.028	0.030	0.050	0.000	0.020	0.010
Styrene	52	0.000	0.040	0.055	0.070	0.107	0.190	0.000	0.059	0.042
tert-Butylbenzene	58	0.000	0.000	0.000	0.020	0.030	0.040	0.000	0.008	0.013
Tetrachloroethylene	58	0.079	0.120	0.145	0.178	0.268	9.100	0.070	0.324	1.178
Toluene	56	0.343	0.630	0.915	1.238	1.765	55.230	0.240	2.556	7.904
trans-1,2-Dichloroethylene	58	0.000	0.013	0.030	0.040	0.050	0.060	0.000	0.028	0.019
trans-1,2-Dimethylcyclohe	58	0.000	0.000	0.020	0.030	0.040	0.100	0.000	0.021	0.020
trans-1,3-Dichloropropene	58	0.000	0.000	0.020	0.045	0.212	2.740	0.000	0.111	0.385
trans-1,4-Dimethylcyclohe	58	0.000	0.010	0.010	0.020	0.030	0.060	0.000	0.016	0.010
trans-2-Butene	58	0.020	0.040	0.050	0.060	0.070	0.330	0.000	0.057	0.044
trans-2-Heptene	58	0.000	0.000	0.020	0.038	0.040	0.060	0.000	0.018	0.018

Table 50 VOC Annual Statistics at Simcoe (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
trans-2-Hexene	58	0.000	0.000	0.010	0.020	0.030	0.050	0.000	0.013	0.014
trans-2-Octene	19	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.002	0.007
trans-2-Pentene	58	0.000	0.019	0.030	0.050	0.070	0.170	0.000	0.037	0.029
trans-3-Heptene	58	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.001	0.003
trans-3-Methyl-2-pentene	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
trans-4-Methyl-2-pentene	58	0.000	0.000	0.000	0.000	0.000	0.030	0.000	0.001	0.005
Trichloroethylene	58	0.040	0.070	0.090	0.100	0.130	0.290	0.030	0.091	0.045
Undecane	58	0.050	0.080	0.097	0.133	0.153	0.440	0.040	0.117	0.076
Valeraldehyde	43	0.000	0.000	0.057	0.141	0.296	0.367	0.000	0.094	0.113
Vinylchloride	58	0.000	0.011	0.030	0.030	0.030	0.040	0.000	0.022	0.012

Note: VOC sites are operated by Environment Canada.

Table 51 VOC Annual Statistics at Stouffville (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	60	0.340	0.380	0.407	0.430	0.450	0.570	0.320	0.408	0.041
1,1,2,2-Tetrachloroethane	60	0.019	0.030	0.060	0.070	0.080	0.090	0.000	0.050	0.023
1,1,2-Trichloroethane	60	0.000	0.023	0.050	0.060	0.070	0.097	0.000	0.043	0.026
1,1-Dichloroethane	60	0.000	0.026	0.040	0.050	0.060	0.320	0.000	0.046	0.051
1,1-Dichloroethylene	60	0.000	0.030	0.080	0.080	0.090	0.100	0.000	0.061	0.031
1,2,3-Trimethylbenzene	60	0.030	0.056	0.090	0.140	0.240	0.750	0.020	0.119	0.112
1,2,4-Trichlorobenzene	60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	60	0.090	0.195	0.295	0.513	0.823	3.080	0.020	0.430	0.463
1,2-Dichlorobenzene	60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	60	0.058	0.070	0.070	0.080	0.090	0.130	0.050	0.075	0.014
1,2-Dichloropropane	60	0.000	0.000	0.000	0.043	0.050	0.110	0.000	0.021	0.027
1,2-Diethylbenzene	60	0.010	0.017	0.020	0.040	0.041	0.080	0.000	0.026	0.015
1,3,5-Trimethylbenzene	60	0.030	0.070	0.100	0.160	0.262	0.910	0.010	0.138	0.138
1,3-Butadiene	60	0.040	0.060	0.080	0.110	0.160	0.320	0.030	0.097	0.061
1,3-Dichlorobenzene	60	0.000	0.000	0.000	0.000	0.000	0.024	0.000	0.000	0.003
1,3-Diethylbenzene	60	0.010	0.020	0.034	0.050	0.080	0.150	0.010	0.041	0.027
1,4-Dichlorobenzene	60	0.040	0.050	0.070	0.103	0.150	0.310	0.030	0.084	0.048
1,4-Dichlorobutane	60	0.000	0.000	0.000	0.020	0.040	0.050	0.000	0.010	0.016
1,4-Diethylbenzene	58	0.029	0.060	0.086	0.128	0.213	0.500	0.020	0.110	0.085
1-Butene/Isobutene	60	0.260	0.350	0.500	0.699	1.079	9.130	0.200	0.766	1.198
1-Butyne	60	0.000	0.000	0.000	0.030	0.040	0.050	0.000	0.012	0.017
1-Decene	39	0.000	0.000	0.050	0.075	0.102	0.250	0.000	0.046	0.054
1-Heptene	39	0.050	0.075	0.130	0.180	0.206	1.070	0.040	0.164	0.176
1-Hexene	60	0.070	0.150	0.180	0.240	0.291	1.080	0.000	0.215	0.156
1-Methylcyclohexene	60	0.020	0.040	0.050	0.070	0.070	0.120	0.010	0.050	0.021
1-Methylcyclopentene	60	0.020	0.030	0.041	0.060	0.090	0.660	0.000	0.066	0.103
1-Nonene	39	0.000	0.000	0.000	0.040	0.060	0.180	0.000	0.023	0.038
1-Octene	39	0.000	0.000	0.040	0.050	0.062	0.090	0.000	0.034	0.026
1-Pentene	60	0.058	0.080	0.111	0.170	0.242	3.140	0.050	0.200	0.409
1-Propyne	55	0.000	0.037	0.050	0.080	0.100	0.180	0.000	0.057	0.039
2,2,3-Trimethylbutane	60	0.000	0.000	0.000	0.000	0.021	0.080	0.000	0.006	0.016
2,2,4-Trimethylpentane	60	0.100	0.236	0.335	0.568	0.777	4.580	0.050	0.480	0.612
2,2,5-Trimethylhexane	60	0.010	0.020	0.030	0.034	0.060	0.140	0.000	0.031	0.023
2,2-Dimethylbutane	60	0.060	0.110	0.146	0.205	0.341	2.980	0.040	0.225	0.380
2,2-Dimethylhexane	60	0.000	0.020	0.030	0.040	0.050	0.080	0.000	0.029	0.019
2,2-Dimethylpentane	60	0.000	0.020	0.030	0.051	0.090	0.310	0.000	0.050	0.059
2,2-Dimethylpropane	60	0.028	0.040	0.050	0.063	0.091	0.270	0.020	0.058	0.037

Table 51 VOC Annual Statistics at Stouffville (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	60	0.040	0.080	0.115	0.165	0.253	1.620	0.020	0.159	0.209
2,3-Dimethylbutane	60	0.050	0.132	0.200	0.305	0.536	4.240	0.040	0.331	0.573
2,3-Dimethylpentane	60	0.060	0.120	0.160	0.257	0.422	1.620	0.040	0.234	0.248
2,4-Dimethylhexane	60	0.030	0.060	0.085	0.133	0.182	1.090	0.020	0.116	0.140
2,4-Dimethylpentane	60	0.030	0.068	0.090	0.130	0.240	0.900	0.020	0.133	0.152
2,5-Dimethylhexane	60	0.020	0.045	0.066	0.100	0.140	0.860	0.020	0.087	0.110
2-Ethyl-1-Butene	60	0.000	0.000	0.010	0.020	0.040	0.600	0.000	0.028	0.089
2-Ethyltoluene	60	0.030	0.060	0.090	0.140	0.240	0.690	0.020	0.122	0.107
2-Methyl-1-butene	60	0.000	0.068	0.129	0.228	0.370	6.160	0.000	0.300	0.822
2-Methyl-2-butene	60	0.060	0.090	0.138	0.289	0.431	10.440	0.040	0.438	1.393
2-Methylheptane	60	0.050	0.090	0.159	0.213	0.311	0.900	0.030	0.182	0.143
2-Methylhexane	60	0.090	0.170	0.270	0.444	0.761	4.380	0.000	0.426	0.626
2-Methylpentane	60	0.170	0.459	0.718	1.093	2.273	14.680	0.140	1.262	2.139
3,6-Dimethyloctane	60	0.000	0.000	0.020	0.030	0.050	0.120	0.000	0.020	0.024
3-Ethyltoluene	60	0.050	0.125	0.190	0.310	0.522	1.920	0.020	0.267	0.282
3-Methyl-1-pentene	60	0.000	0.000	0.000	0.050	0.070	0.370	0.000	0.031	0.056
3-Methylheptane	60	0.040	0.070	0.125	0.180	0.262	0.850	0.000	0.151	0.134
3-Methylhexane	60	0.080	0.178	0.296	0.515	0.900	4.940	0.040	0.484	0.699
3-Methylpentane	60	0.139	0.348	0.460	0.808	1.413	8.680	0.100	0.823	1.257
4-Ethyltoluene	60	0.030	0.089	0.114	0.190	0.301	1.090	0.030	0.161	0.156
4-Methyl-1-pentene	60	0.000	0.000	0.030	0.053	0.070	0.280	0.000	0.034	0.046
4-Methylheptane	60	0.000	0.030	0.060	0.080	0.131	0.310	0.000	0.066	0.057
Acetylene	60	0.562	0.805	1.117	1.658	2.167	4.300	0.448	1.333	0.757
Benzene	60	0.389	0.550	0.735	1.116	1.460	6.550	0.330	0.960	0.881
Benzylchloride	60	0.020	0.030	0.050	0.060	0.070	0.070	0.020	0.046	0.017
Bromodichloromethane	44	0.000	0.068	0.090	0.100	0.107	0.260	0.000	0.078	0.046
Bromoform	60	0.030	0.040	0.055	0.070	0.090	0.090	0.026	0.055	0.020
Bromomethane	60	0.094	0.110	0.165	0.190	0.200	0.260	0.076	0.153	0.041
Bromotrichloromethane	6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Butane	60	0.864	1.403	2.795	4.223	7.007	49.520	0.710	4.456	7.041
Carbontetrachloride	60	0.503	0.598	0.650	0.680	0.700	0.750	0.345	0.627	0.084
Chlorobenzene	60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chloroethane	60	0.050	0.068	0.100	0.120	0.140	0.210	0.040	0.097	0.034
Chloroform	60	0.080	0.090	0.120	0.140	0.161	0.200	0.070	0.120	0.034
Chloromethane	60	1.012	1.120	1.170	1.218	1.324	1.450	0.950	1.182	0.104
cis-1,2-Dichloroethylene	60	0.000	0.010	0.040	0.050	0.050	0.074	0.000	0.031	0.020
cis-1,2-Dimethylcyclohexa	55	0.000	0.025	0.040	0.060	0.076	0.100	0.000	0.043	0.026
cis-1,3-Dichloropropene	60	0.000	0.000	0.000	0.000	0.010	0.010	0.000	0.001	0.003

Table 51 VOC Annual Statistics at Stouffville (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
cis-1,3-Dimethylcyclohexa	56	0.020	0.030	0.080	0.110	0.160	0.330	0.010	0.087	0.070
cis-1,4/t-1,3-Dimethylcycl	60	0.000	0.010	0.030	0.040	0.061	0.110	0.000	0.031	0.025
cis-2-Butene	60	0.040	0.060	0.086	0.180	0.333	6.570	0.030	0.281	0.862
cis-2-Heptene	60	0.000	0.000	0.035	0.050	0.071	0.110	0.000	0.033	0.032
cis-2-Hexene	60	0.000	0.000	0.000	0.033	0.061	0.580	0.000	0.033	0.093
cis-2-Pentene	60	0.040	0.080	0.100	0.170	0.212	3.750	0.030	0.205	0.499
cis-3-Methyl-2-pentene	60	0.000	0.000	0.030	0.050	0.071	0.760	0.000	0.049	0.111
cis-4-Methyl-2-pentene	60	0.000	0.000	0.000	0.050	0.080	1.010	0.000	0.038	0.132
Cyclohexane	60	0.029	0.070	0.100	0.169	0.361	1.780	0.000	0.184	0.288
Cyclohexene	60	0.000	0.000	0.000	0.050	0.060	0.170	0.000	0.027	0.034
Cyclopentane	60	0.040	0.115	0.152	0.248	0.482	3.410	0.030	0.294	0.531
Cyclopentene	58	0.009	0.020	0.044	0.060	0.090	0.860	0.000	0.065	0.120
Decane	60	0.040	0.086	0.185	0.253	0.466	1.100	0.030	0.234	0.203
Dibromochloromethane	54	0.017	0.030	0.050	0.078	0.080	0.120	0.000	0.053	0.029
Dibromomethane	60	0.044	0.060	0.100	0.130	0.140	0.160	0.000	0.093	0.040
Dichloromethane	60	0.200	0.313	0.475	1.008	1.785	10.140	0.180	1.068	1.820
Dodecane	60	0.030	0.049	0.085	0.130	0.213	0.710	0.000	0.114	0.115
EDB	60	0.019	0.030	0.060	0.070	0.080	0.100	0.000	0.053	0.026
Ethane	60	1.557	2.412	3.150	3.966	5.119	8.434	0.604	3.330	1.394
Ethylbenzene	60	0.090	0.242	0.370	0.680	1.053	4.180	0.070	0.549	0.601
Ethylbromide	60	0.000	0.000	0.030	0.040	0.050	0.060	0.000	0.026	0.020
Ethylene	60	0.657	0.992	1.356	2.064	2.978	4.226	0.622	1.688	0.925
Freon11	60	1.609	1.698	1.765	1.880	2.030	8.520	1.540	1.962	0.956
Freon113	54	0.740	0.770	0.790	0.838	0.850	0.950	0.730	0.803	0.047
Freon114	60	0.160	0.170	0.260	0.280	0.300	0.320	0.128	0.235	0.056
Freon12	60	2.549	2.678	2.770	2.903	3.038	6.740	2.480	2.871	0.543
Freon22	60	0.480	0.570	0.640	0.763	0.892	2.300	0.440	0.700	0.276
Heptane	60	0.120	0.220	0.330	0.498	0.954	5.260	0.060	0.490	0.688
Hexachlorobutadiene	60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Hexane	60	0.168	0.357	0.510	0.985	1.665	8.040	0.100	0.906	1.321
Hexylbenzene	52	0.000	0.000	0.000	0.030	0.059	0.080	0.000	0.017	0.024
Indane	60	0.020	0.040	0.050	0.080	0.111	0.400	0.010	0.067	0.057
Isobutane	60	0.340	0.623	1.170	1.987	3.719	25.870	0.310	1.976	3.467
iso-Butylbenzene	60	0.010	0.013	0.030	0.033	0.050	0.070	0.010	0.027	0.014
Isopentane	60	0.610	1.500	2.205	3.995	8.858	82.390	0.510	5.321	11.559
Isoprene	56	0.000	0.060	0.115	0.263	0.465	1.020	0.000	0.200	0.235
iso-Propylbenzene	60	0.020	0.038	0.047	0.060	0.081	0.180	0.020	0.051	0.028

Table 51 VOC Annual Statistics at Stouffville (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
m and p-Xylene	60	0.250	0.623	0.980	1.980	2.823	15.560	0.190	1.591	2.152
Methylcyclohexane	60	0.050	0.110	0.235	0.357	0.506	1.920	0.030	0.285	0.280
Methylcyclopentane	60	0.070	0.153	0.230	0.410	0.803	4.240	0.050	0.420	0.667
Naphthalene	30	0.065	0.098	0.152	0.170	0.406	0.700	0.060	0.186	0.158
n-Butylbenzene	60	0.010	0.020	0.030	0.050	0.080	0.160	0.000	0.040	0.027
Nonane	60	0.030	0.069	0.140	0.190	0.321	0.770	0.030	0.171	0.135
n-Propylbenzene	60	0.030	0.067	0.090	0.120	0.211	0.680	0.020	0.112	0.098
Octane	60	0.040	0.089	0.150	0.235	0.344	0.690	0.030	0.183	0.141
o-Xylene	60	0.090	0.192	0.314	0.579	0.866	3.750	0.060	0.476	0.544
p-Cymene	60	0.000	0.020	0.035	0.063	0.090	0.190	0.000	0.045	0.036
Pentane	60	0.455	0.889	1.315	2.161	4.516	33.790	0.350	2.860	5.479
Propane	60	1.327	2.185	2.810	4.598	5.782	8.790	1.070	3.488	1.820
Propylene	60	0.209	0.305	0.395	0.615	0.890	1.930	0.150	0.539	0.384
sec-Butylbenzene	60	0.010	0.020	0.030	0.040	0.050	0.070	0.010	0.029	0.015
Styrene	56	0.000	0.050	0.073	0.153	0.240	0.610	0.000	0.115	0.124
tert-Butylbenzene	60	0.000	0.000	0.000	0.030	0.030	0.060	0.000	0.011	0.016
Tetrachloroethylene	60	0.120	0.208	0.292	0.380	0.561	0.860	0.100	0.320	0.162
Toluene	60	0.589	1.438	2.445	4.463	6.377	25.510	0.410	3.377	3.654
trans-1,2-Dichloroethylene	58	0.000	0.000	0.035	0.040	0.040	0.052	0.000	0.026	0.019
trans-1,2-Dimethylcyclohe	60	0.000	0.019	0.050	0.080	0.111	0.240	0.000	0.055	0.051
trans-1,3-Dichloropropene	60	0.000	0.000	0.000	0.020	0.030	0.030	0.000	0.009	0.012
trans-1,4-Dimethylcyclohe	60	0.010	0.020	0.030	0.050	0.071	0.150	0.000	0.038	0.029
trans-2-Butene	60	0.040	0.068	0.095	0.200	0.368	7.500	0.040	0.318	0.990
trans-2-Heptene	60	0.000	0.000	0.030	0.040	0.050	0.170	0.000	0.028	0.030
trans-2-Hexene	60	0.000	0.010	0.022	0.043	0.071	0.770	0.000	0.051	0.122
trans-2-Octene	21	0.000	0.000	0.000	0.000	0.000	0.050	0.000	0.002	0.011
trans-2-Pentene	60	0.020	0.040	0.070	0.195	0.273	6.070	0.010	0.256	0.829
trans-3-Heptene	60	0.000	0.000	0.000	0.000	0.010	0.080	0.000	0.004	0.012
trans-3-Methyl-2-pentene	60	0.000	0.000	0.000	0.000	0.051	0.690	0.000	0.029	0.103
trans-4-Methyl-2-pentene	60	0.000	0.000	0.000	0.000	0.010	0.180	0.000	0.006	0.025
Trichloroethylene	60	0.030	0.080	0.123	0.193	0.322	1.190	0.020	0.180	0.199
Undecane	60	0.040	0.095	0.150	0.243	0.432	1.530	0.020	0.212	0.218
Vinylchloride	60	0.010	0.020	0.030	0.040	0.040	0.050	0.000	0.028	0.011

Note: VOC sites are operated by Environment Canada.

Table 52 VOC Annual Statistics at Windsor (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
1,1,1-Trichloroethane	41	0.320	0.350	0.370	0.380	0.400	0.756	0.210	0.374	0.070
1,1,2,2-Tetrachloroethane	41	0.000	0.026	0.040	0.060	0.070	0.090	0.000	0.041	0.024
1,1,2-Trichloroethane	41	0.000	0.000	0.030	0.050	0.060	0.060	0.000	0.029	0.023
1,1-Dichloroethane	41	0.000	0.000	0.020	0.040	0.050	0.060	0.000	0.023	0.023
1,1-Dichloroethylene	41	0.000	0.022	0.040	0.080	0.090	0.100	0.000	0.047	0.032
1,2,3-Trimethylbenzene	41	0.080	0.110	0.150	0.200	0.306	0.800	0.060	0.185	0.138
1,2,4-Trichlorobenzene	41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2,4-Trimethylbenzene	41	0.296	0.420	0.560	0.800	1.334	3.360	0.260	0.747	0.603
1,2-Dichlorobenzene	41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,2-Dichloroethane	41	0.054	0.060	0.070	0.080	0.090	0.100	0.050	0.073	0.015
1,2-Dichloropropane	38	0.000	0.000	0.000	0.040	0.050	0.060	0.000	0.020	0.024
1,2-Diethylbenzene	41	0.000	0.020	0.030	0.030	0.042	0.070	0.000	0.027	0.016
1,3,5-Trimethylbenzene	41	0.100	0.130	0.180	0.270	0.418	1.070	0.090	0.245	0.190
1,3-Butadiene	41	0.070	0.090	0.114	0.160	0.260	0.380	0.060	0.143	0.079
1,3-Dichlorobenzene	41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1,3-Diethylbenzene	41	0.030	0.040	0.050	0.070	0.090	0.200	0.030	0.060	0.035
1,4-Dichlorobenzene	41	0.046	0.060	0.080	0.110	0.170	0.380	0.040	0.098	0.065
1,4-Dichlorobutane	41	0.000	0.000	0.000	0.020	0.030	0.040	0.000	0.008	0.014
1,4-Diethylbenzene	41	0.080	0.098	0.120	0.180	0.320	0.620	0.070	0.166	0.114
1-Butene/Isobutene	41	0.330	0.390	0.430	0.600	0.930	1.280	0.300	0.550	0.247
1-Butyne	41	0.000	0.000	0.000	0.020	0.030	0.040	0.000	0.010	0.015
1-Decene	18	0.000	0.000	0.040	0.060	0.116	0.160	0.000	0.043	0.050
1-Heptene	20	0.059	0.080	0.105	0.153	0.205	0.290	0.040	0.124	0.064
1-Hexene	41	0.110	0.130	0.180	0.230	0.306	0.400	0.000	0.193	0.085
1-Methylcyclohexene	41	0.020	0.040	0.050	0.060	0.072	0.114	0.020	0.050	0.019
1-Methylcyclopentene	41	0.030	0.040	0.050	0.070	0.120	0.180	0.030	0.062	0.036
1-Nonene	20	0.000	0.000	0.040	0.055	0.081	0.090	0.000	0.035	0.033
1-Octene	20	0.000	0.015	0.030	0.050	0.060	0.070	0.000	0.032	0.023
1-Pentene	41	0.082	0.100	0.120	0.180	0.210	0.370	0.080	0.146	0.065
1-Propyne	36	0.060	0.070	0.080	0.100	0.145	0.220	0.050	0.093	0.038
2,2,3-Trimethylbutane	41	0.000	0.000	0.000	0.010	0.030	0.040	0.000	0.007	0.013
2,2,4-Trimethylpentane	41	0.210	0.270	0.370	0.510	0.880	1.794	0.190	0.481	0.329
2,2,5-Trimethylhexane	41	0.020	0.030	0.040	0.050	0.090	0.186	0.020	0.051	0.034
2,2-Dimethylbutane	41	0.110	0.140	0.190	0.230	0.272	0.440	0.100	0.193	0.072
2,2-Dimethylhexane	41	0.010	0.020	0.030	0.030	0.040	0.070	0.010	0.028	0.013
2,2-Dimethylpentane	41	0.030	0.040	0.050	0.060	0.100	0.180	0.000	0.055	0.032
2,2-Dimethylpropane	41	0.030	0.040	0.060	0.070	0.080	0.100	0.030	0.055	0.017

Table 52 VOC Annual Statistics at Windsor (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
2,3,4-Trimethylpentane	41	0.080	0.100	0.140	0.200	0.350	0.684	0.060	0.182	0.127
2,3-Dimethylbutane	41	0.160	0.220	0.270	0.420	0.550	1.000	0.140	0.337	0.187
2,3-Dimethylpentane	41	0.140	0.170	0.210	0.290	0.480	0.876	0.120	0.277	0.165
2,4-Dimethylhexane	41	0.060	0.070	0.090	0.120	0.208	0.306	0.050	0.110	0.059
2,4-Dimethylpentane	41	0.070	0.090	0.110	0.180	0.290	0.526	0.050	0.155	0.105
2,5-Dimethylbenzaldehyde	33	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2,5-Dimethylhexane	41	0.050	0.060	0.070	0.100	0.170	0.288	0.040	0.091	0.052
2-Ethyl-1-Butene	41	0.000	0.010	0.020	0.030	0.040	0.090	0.000	0.022	0.020
2-Ethyltoluene	41	0.080	0.120	0.150	0.200	0.332	0.820	0.080	0.192	0.143
2-Methyl-1-butene	41	0.070	0.110	0.130	0.200	0.300	0.570	0.000	0.168	0.118
2-Methyl-2-butene	41	0.120	0.160	0.200	0.320	0.520	0.890	0.090	0.270	0.185
2-Methylheptane	41	0.100	0.120	0.160	0.190	0.350	0.512	0.080	0.188	0.103
2-Methylhexane	41	0.210	0.280	0.330	0.480	0.700	1.204	0.180	0.424	0.244
2-Methylpentane	41	0.600	0.790	1.210	1.810	2.400	4.280	0.560	1.424	0.795
2-Pentanone/Isovaleraldehy	23	0.000	0.072	0.158	0.209	0.395	0.499	0.000	0.166	0.138
3,6-Dimethyloctane	41	0.000	0.000	0.020	0.040	0.060	0.086	0.000	0.024	0.025
3-Ethyltoluene	41	0.180	0.260	0.350	0.520	0.844	1.830	0.160	0.452	0.342
3-Methyl-1-pentene	41	0.000	0.000	0.000	0.040	0.060	0.100	0.000	0.021	0.028
3-Methylheptane	40	0.080	0.108	0.140	0.178	0.351	0.518	0.070	0.175	0.110
3-Methylhexane	41	0.210	0.300	0.370	0.560	0.810	1.366	0.200	0.475	0.285
3-Methylpentane	41	0.430	0.550	0.940	1.390	1.950	3.470	0.410	1.089	0.718
4-Ethyltoluene	41	0.110	0.140	0.190	0.270	0.424	1.010	0.090	0.249	0.181
4-Methyl-1-pentene	41	0.000	0.000	0.000	0.040	0.060	0.080	0.000	0.019	0.026
4-Methylheptane	41	0.040	0.050	0.060	0.080	0.144	0.226	0.030	0.078	0.046
Acetaldehyde	33	0.834	1.138	1.572	1.974	2.614	3.449	0.759	1.670	0.679
Acetone	33	1.703	2.233	3.128	4.529	6.339	7.457	1.554	3.600	1.669
Acetylene	41	0.972	1.307	1.846	2.552	3.908	6.698	0.872	2.190	1.273
Acrolein	33	0.000	0.000	0.038	0.077	0.123	0.189	0.000	0.054	0.054
Benzaldehyde	33	0.067	0.088	0.116	0.176	0.247	0.347	0.060	0.141	0.073
Benzene	41	0.780	0.980	1.392	1.840	2.800	8.354	0.690	1.753	1.378
Benzylchloride	41	0.020	0.030	0.050	0.060	0.060	0.070	0.020	0.044	0.015
Bromodichloromethane	24	0.000	0.060	0.075	0.080	0.107	0.120	0.000	0.067	0.036
Bromoform	41	0.030	0.030	0.040	0.060	0.060	0.070	0.020	0.045	0.015
Bromomethane	41	0.090	0.100	0.130	0.180	0.210	0.310	0.090	0.144	0.052
Butane	41	2.080	2.620	3.780	5.650	7.590	12.370	1.180	4.503	2.596
Carbontetrachloride	41	0.560	0.600	0.660	0.700	0.720	0.780	0.440	0.648	0.069
Chlorobenzene	41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 52 VOC Annual Statistics at Windsor (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
Chloroethane	41	0.040	0.050	0.060	0.090	0.100	0.120	0.040	0.069	0.022
Chloroform	41	0.080	0.090	0.110	0.130	0.160	0.220	0.080	0.117	0.035
Chloromethane	41	1.010	1.140	1.190	1.240	1.310	1.440	0.790	1.187	0.109
cis-1,2-Dichloroethylene	41	0.000	0.000	0.030	0.040	0.050	0.060	0.000	0.026	0.020
cis-1,2-Dimethylcyclohexa	36	0.020	0.028	0.040	0.043	0.070	0.130	0.000	0.040	0.023
cis-1,3-Dichloropropene	41	0.000	0.000	0.000	0.000	0.000	0.540	0.000	0.013	0.084
cis-1,3-Dimethylcyclohexa	39	0.040	0.050	0.060	0.080	0.132	0.300	0.030	0.076	0.051
cis-1,4/t-1,3-Dimethylcycl	41	0.010	0.020	0.020	0.030	0.060	0.120	0.010	0.031	0.022
cis-2-Butene	41	0.074	0.090	0.110	0.140	0.220	0.390	0.050	0.131	0.070
cis-2-Heptene	38	0.000	0.000	0.030	0.040	0.063	0.100	0.000	0.027	0.029
cis-2-Hexene	41	0.000	0.000	0.020	0.040	0.070	0.120	0.000	0.027	0.031
cis-2-Pentene	41	0.080	0.090	0.110	0.150	0.230	0.360	0.070	0.140	0.074
cis-3-Methyl-2-pentene	41	0.000	0.020	0.030	0.040	0.070	0.150	0.000	0.039	0.033
cis-4-Methyl-2-pentene	41	0.000	0.000	0.030	0.090	0.140	0.228	0.000	0.052	0.061
Crotonaldehyde	33	0.000	0.000	0.000	0.036	0.084	0.305	0.000	0.033	0.077
Cyclohexane	41	0.080	0.130	0.150	0.240	0.490	0.814	0.080	0.226	0.183
Cyclohexene	41	0.000	0.000	0.020	0.040	0.050	0.080	0.000	0.023	0.025
Cyclopentane	41	0.110	0.130	0.190	0.280	0.330	0.690	0.100	0.222	0.119
Cyclopentene	41	0.020	0.030	0.040	0.060	0.070	0.130	0.020	0.047	0.026
Decane	41	0.120	0.150	0.200	0.280	0.620	0.930	0.080	0.281	0.217
Dibromochloromethane	38	0.015	0.022	0.045	0.060	0.073	0.080	0.000	0.044	0.023
Dibromomethane	41	0.050	0.060	0.070	0.110	0.120	0.140	0.040	0.084	0.031
Dichloromethane	41	0.230	0.310	0.360	0.430	0.670	1.676	0.210	0.453	0.302
Dodecane	41	0.060	0.090	0.110	0.150	0.240	0.340	0.050	0.134	0.069
EDB	38	0.000	0.022	0.040	0.060	0.070	0.080	0.000	0.041	0.023
Ethane	41	3.666	4.819	6.602	9.559	14.148	45.241	3.276	8.761	7.465
Ethylbenzene	41	0.270	0.410	0.528	0.730	1.106	5.080	0.230	0.715	0.773
Ethylbromide	41	0.000	0.000	0.000	0.030	0.040	0.050	0.000	0.015	0.019
Ethylene	41	1.634	2.255	3.044	4.309	5.925	9.374	1.396	3.490	1.797
Formaldehyde	33	1.266	1.644	2.121	2.646	3.683	5.681	0.976	2.326	1.022
Freon11	41	1.600	1.670	1.780	1.860	1.940	2.030	1.110	1.762	0.155
Freon113	41	0.470	0.650	0.700	0.740	0.750	0.820	0.440	0.679	0.085
Freon114	41	0.150	0.160	0.190	0.270	0.280	0.320	0.148	0.211	0.056
Freon12	41	2.580	2.670	2.750	2.882	2.960	3.050	1.980	2.760	0.182
Freon22	41	0.508	0.570	0.640	0.710	0.766	0.980	0.440	0.651	0.112
Heptane	41	0.230	0.270	0.350	0.450	0.670	1.110	0.190	0.403	0.205
Hexachlorobutadiene	41	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Table 52 VOC Annual Statistics at Windsor (1999)

Unit =micrograms/m^3

		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
Hexanal	33	0.037	0.103	0.154	0.232	0.416	1.420	0.000	0.236	0.268
Hexane	41	0.480	0.650	0.980	1.550	2.680	5.240	0.460	1.418	1.205
Hexylbenzene	41	0.000	0.000	0.000	0.030	0.050	0.084	0.000	0.015	0.023
Indane	41	0.050	0.060	0.100	0.180	0.310	0.530	0.050	0.135	0.105
Isobutane	41	0.970	1.300	1.540	2.342	3.224	6.540	0.600	1.942	1.147
iso-Butylbenzene	41	0.016	0.020	0.030	0.030	0.040	0.070	0.010	0.029	0.013
Isopentane	41	1.910	2.250	2.930	4.060	5.360	9.600	1.830	3.469	1.729
Isoprene	37	0.050	0.060	0.090	0.200	0.668	1.920	0.044	0.229	0.359
iso-Propylbenzene	41	0.040	0.050	0.060	0.070	0.110	0.190	0.030	0.066	0.030
m and p-Xylene	41	0.670	1.150	1.510	2.110	3.560	18.610	0.580	2.202	2.842
MEK	33	0.433	0.699	1.016	1.971	4.465	5.058	0.301	1.665	1.446
Methylcyclohexane	41	0.110	0.140	0.180	0.250	0.360	0.580	0.090	0.212	0.111
Methylcyclopentane	41	0.220	0.280	0.380	0.560	0.980	1.540	0.180	0.480	0.304
MIBK	33	0.000	0.063	0.180	0.283	0.596	2.059	0.000	0.269	0.382
m-Tolualdehyde	33	0.000	0.000	0.000	0.000	0.072	0.100	0.000	0.015	0.032
Naphthalene	26	0.180	0.243	0.315	1.385	2.173	3.710	0.180	0.879	1.025
n-Butylbenzene	41	0.030	0.030	0.040	0.060	0.080	0.160	0.020	0.052	0.031
Nonane	41	0.090	0.120	0.160	0.210	0.400	0.590	0.070	0.203	0.130
n-Propylbenzene	41	0.076	0.100	0.120	0.170	0.262	0.580	0.060	0.155	0.103
Octane	41	0.090	0.120	0.150	0.200	0.420	0.660	0.070	0.199	0.129
o-Tolualdehyde	33	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
o-Xylene	41	0.250	0.380	0.480	0.690	1.170	6.220	0.210	0.724	0.946
p-Cymene	41	0.030	0.040	0.060	0.090	0.140	0.390	0.000	0.079	0.063
Pentane	41	1.020	1.250	1.620	2.080	2.640	5.140	0.940	1.831	0.859
Propane	41	2.350	3.340	5.170	16.240	24.470	50.622	1.690	10.077	10.182
Propionaldehyde	33	0.265	0.327	0.385	0.546	0.741	0.941	0.223	0.460	0.190
Propylene	41	0.410	0.520	0.660	1.020	1.420	2.160	0.370	0.839	0.453
p-Tolualdehyde	33	0.000	0.000	0.000	0.000	0.000	0.061	0.000	0.002	0.011
sec-Butylbenzene	41	0.020	0.020	0.030	0.036	0.040	0.080	0.010	0.031	0.015
Styrene	37	0.000	0.080	0.120	0.140	0.230	0.400	0.000	0.124	0.086
tert-Butylbenzene	41	0.000	0.000	0.000	0.020	0.030	0.040	0.000	0.010	0.014
Tetrachloroethylene	41	0.140	0.200	0.260	0.390	0.520	0.920	0.130	0.318	0.174
Toluene	41	1.180	1.900	2.620	4.120	7.640	15.344	1.060	3.558	2.824
trans-1,2-Dichloroethylene	41	0.000	0.000	0.020	0.040	0.040	0.050	0.000	0.020	0.017
trans-1,2-Dimethylcyclohe	41	0.020	0.034	0.042	0.060	0.120	0.270	0.000	0.059	0.049
trans-1,3-Dichloropropene	38	0.000	0.000	0.000	0.020	0.030	0.510	0.000	0.022	0.082
trans-1,4-Dimethylcyclohe	41	0.020	0.020	0.030	0.030	0.060	0.120	0.010	0.034	0.021

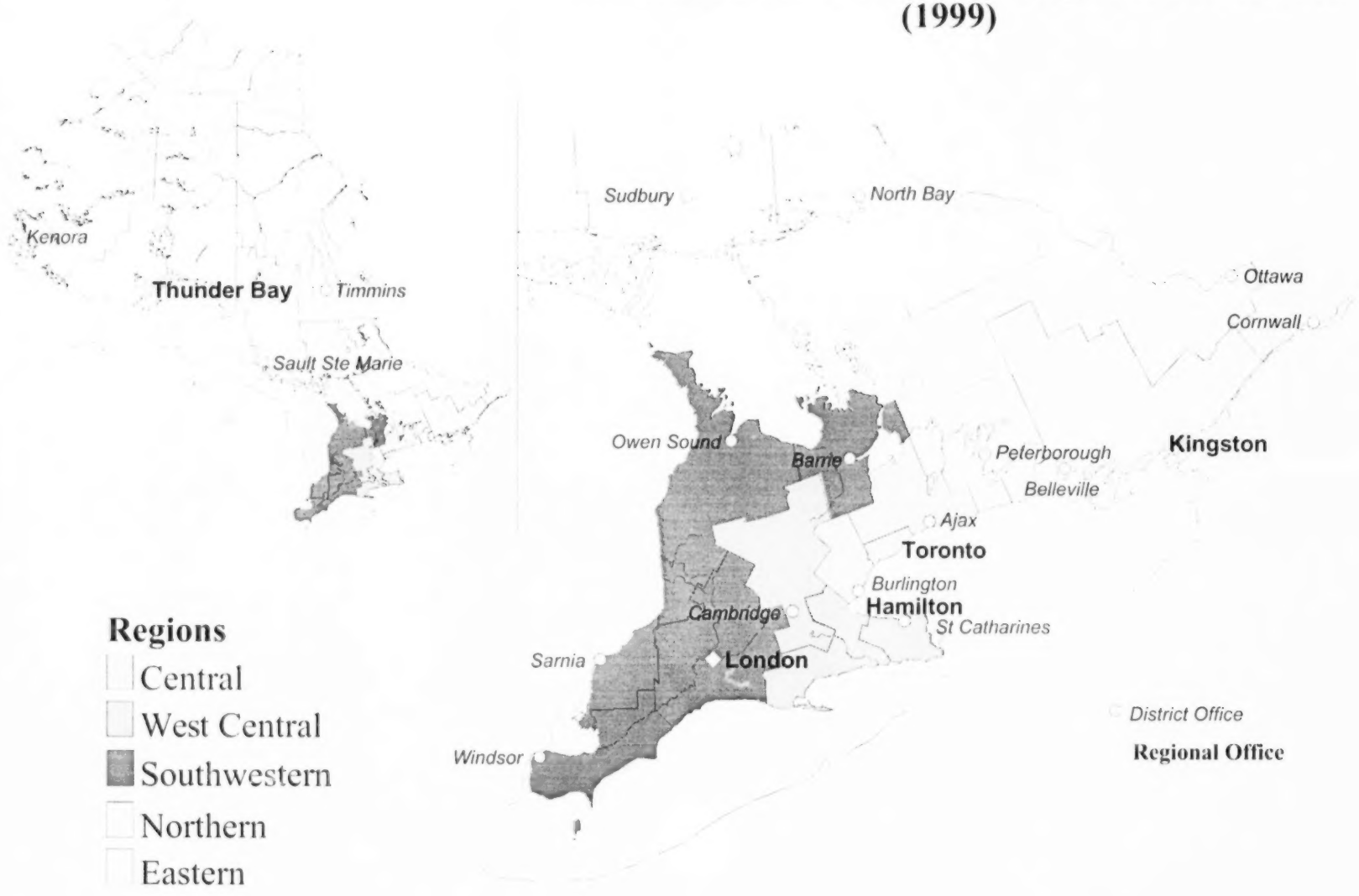
Table 52 VOC Annual Statistics at Windsor (1999)

Unit =micrograms/m^3

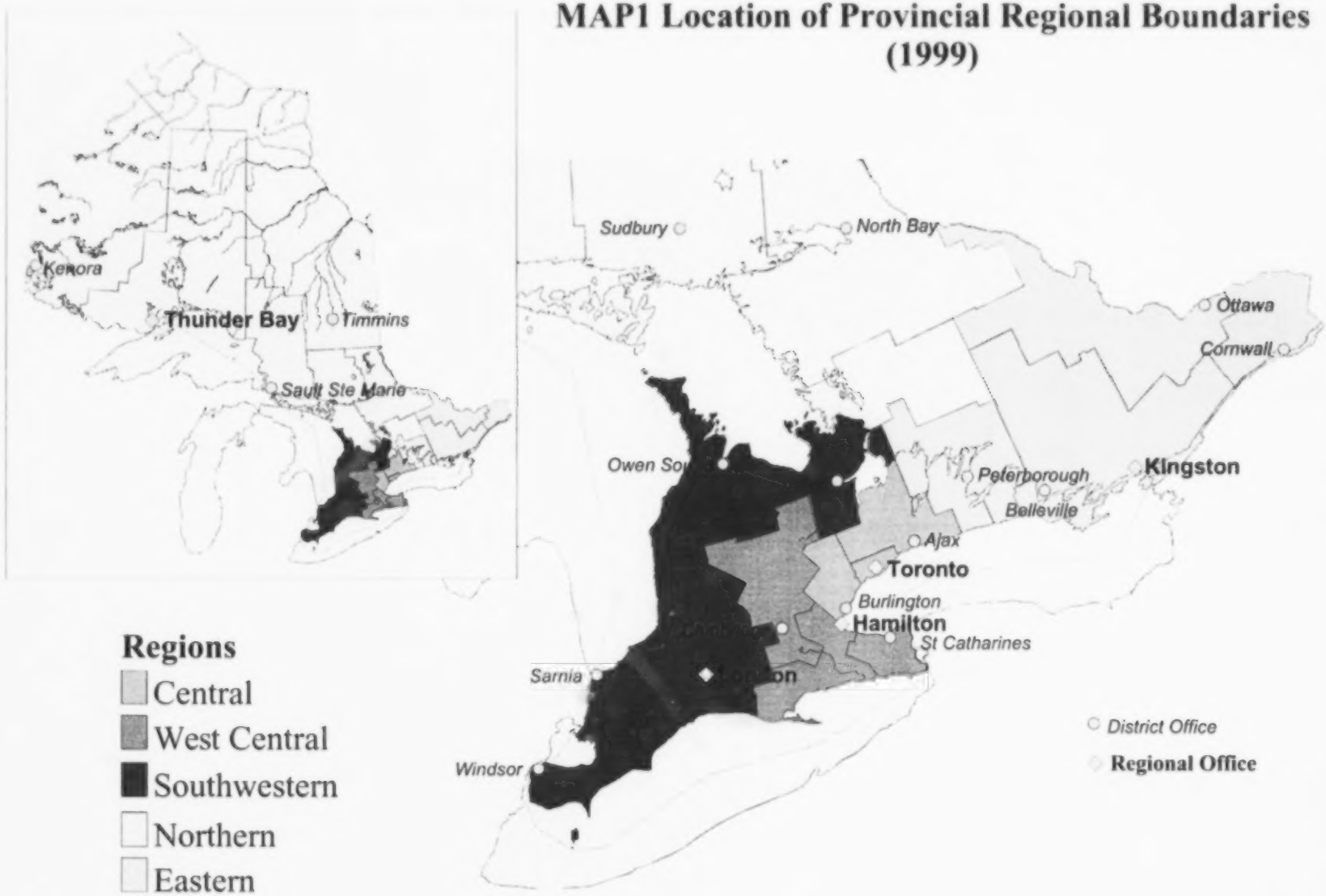
		PERCENTILES								
Compounds	**No. of Samples**	**5%**	**25%**	**50%**	**75%**	**90%**	**Max.**	**Min.**	**Mean**	**Std. Dev.**
trans-2-Butene	41	0.070	0.090	0.110	0.170	0.238	0.450	0.070	0.143	0.080
trans-2-Heptene	41	0.000	0.000	0.020	0.040	0.040	0.070	0.000	0.022	0.021
trans-2-Hexene	41	0.020	0.024	0.040	0.050	0.070	0.140	0.020	0.044	0.028
trans-2-Octene	21	0.000	0.000	0.000	0.000	0.010	0.050	0.000	0.005	0.014
trans-2-Pentene	41	0.040	0.060	0.100	0.150	0.210	0.500	0.030	0.125	0.099
trans-3-Heptene	41	0.000	0.000	0.000	0.000	0.010	0.020	0.000	0.002	0.006
trans-3-Methyl-2-pentene	41	0.000	0.000	0.000	0.030	0.060	0.130	0.000	0.021	0.032
trans-4-Methyl-2-pentene	41	0.000	0.000	0.000	0.020	0.070	0.178	0.000	0.019	0.041
Trichloroethylene	41	0.060	0.100	0.120	0.180	0.230	0.360	0.060	0.147	0.074
Undecane	41	0.120	0.140	0.184	0.300	0.560	0.762	0.080	0.253	0.179
Valeraldehyde	33	0.024	0.112	0.162	0.205	0.509	0.652	0.000	0.202	0.167
Vinylchloride	41	0.000	0.010	0.020	0.030	0.040	0.040	0.000	0.021	0.012

Note: VOC sites are operated by Environment Canada.

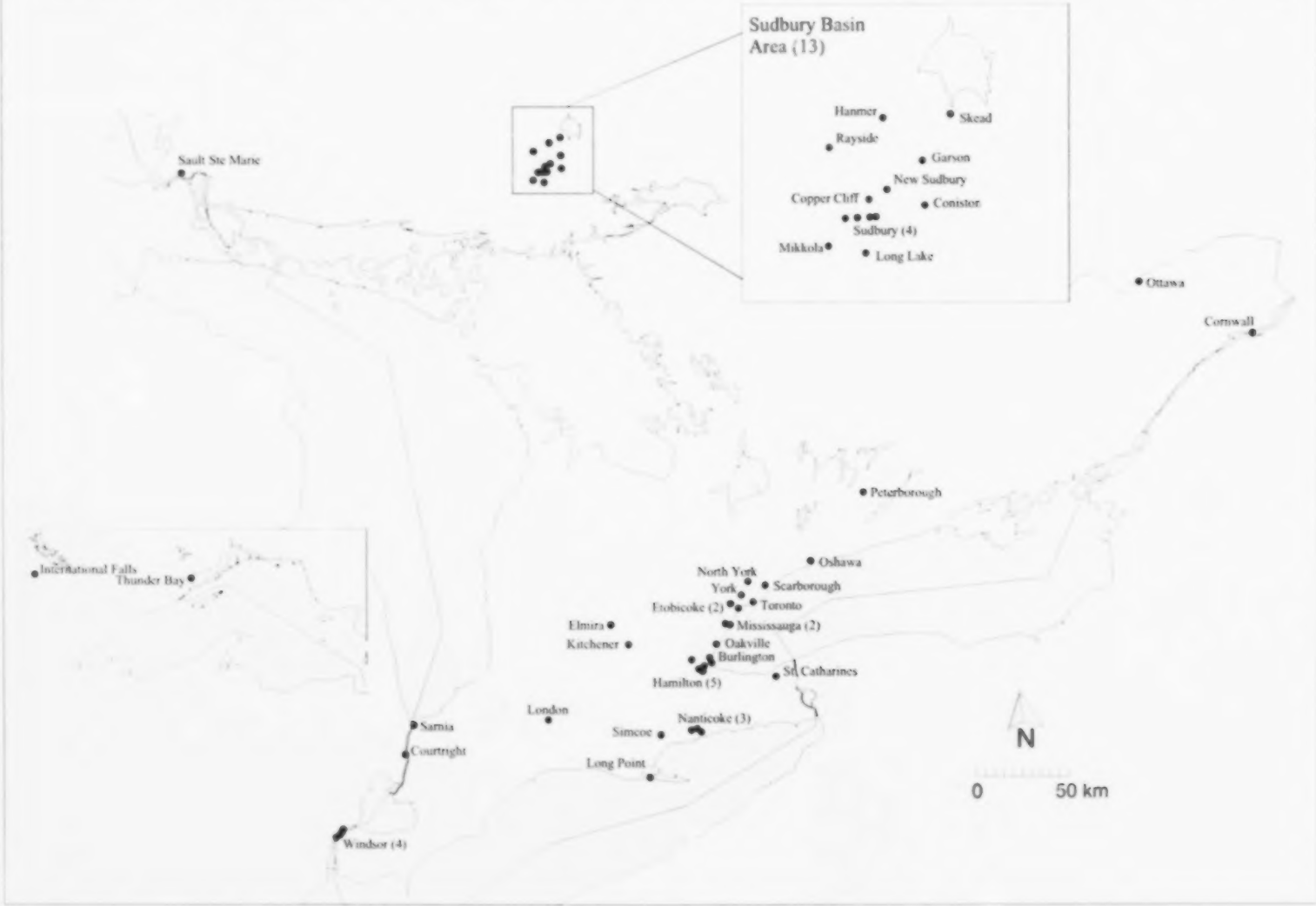
MAP1 Location of Provincial Regional Boundaries (1999)



MAP1 Location of Provincial Regional Boundaries (1999)



MAP 2 Location of Provincial Continuous SO_2 Air Monitoring Stations (1999)



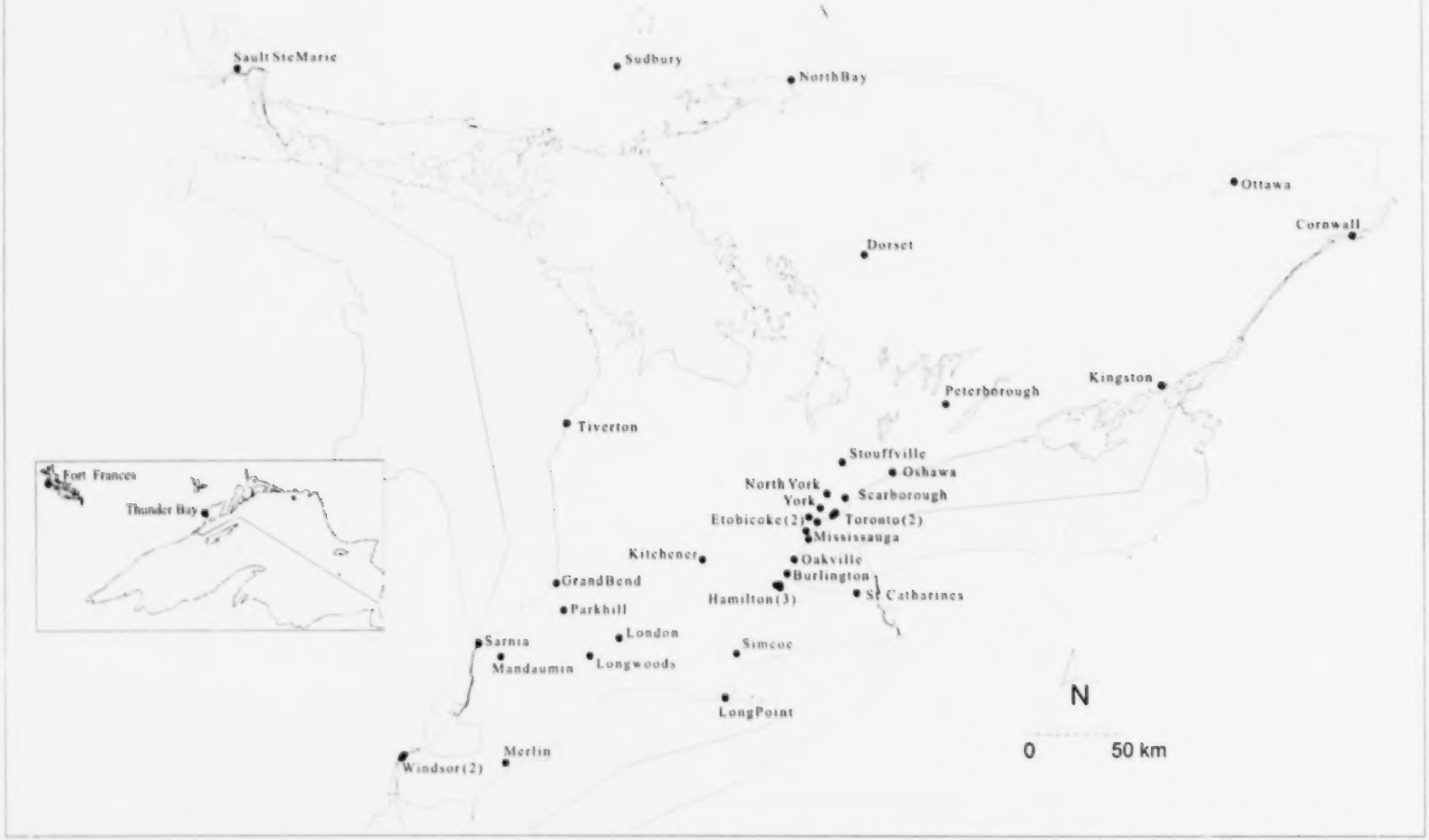
MAP 3 Location of Provincial Continuous SP (as COH) Air Monitoring Stations (1999)

MAP 4 Location of Provincial Continuous TRS Air Monitoring Stations (1999)

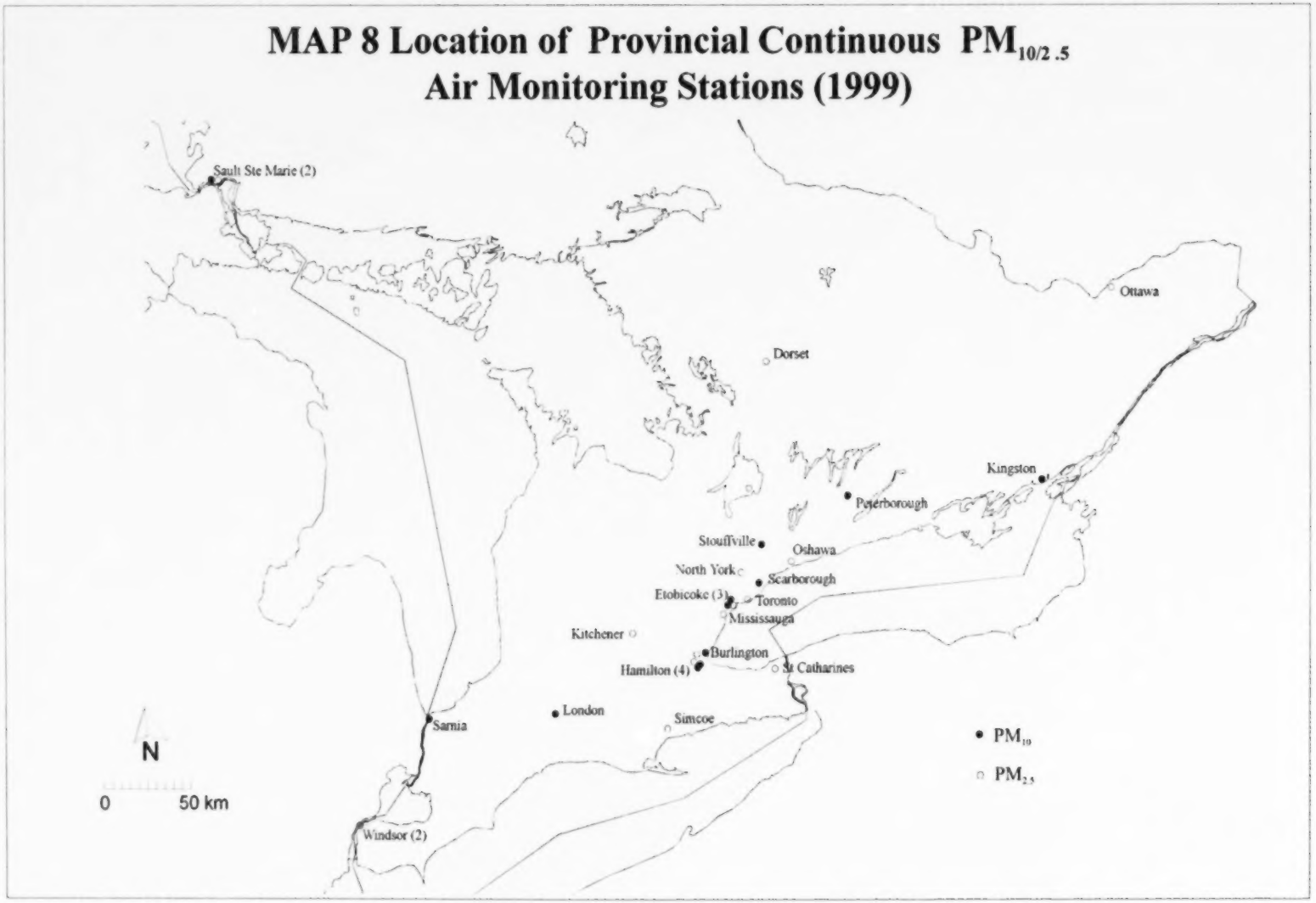
Map 5 Location of Provincial Continuous CO Air Monitoring Stations (1999)

MAP 6 Location of Provincial Continuous NO_2 Air Monitoring Stations (1999)

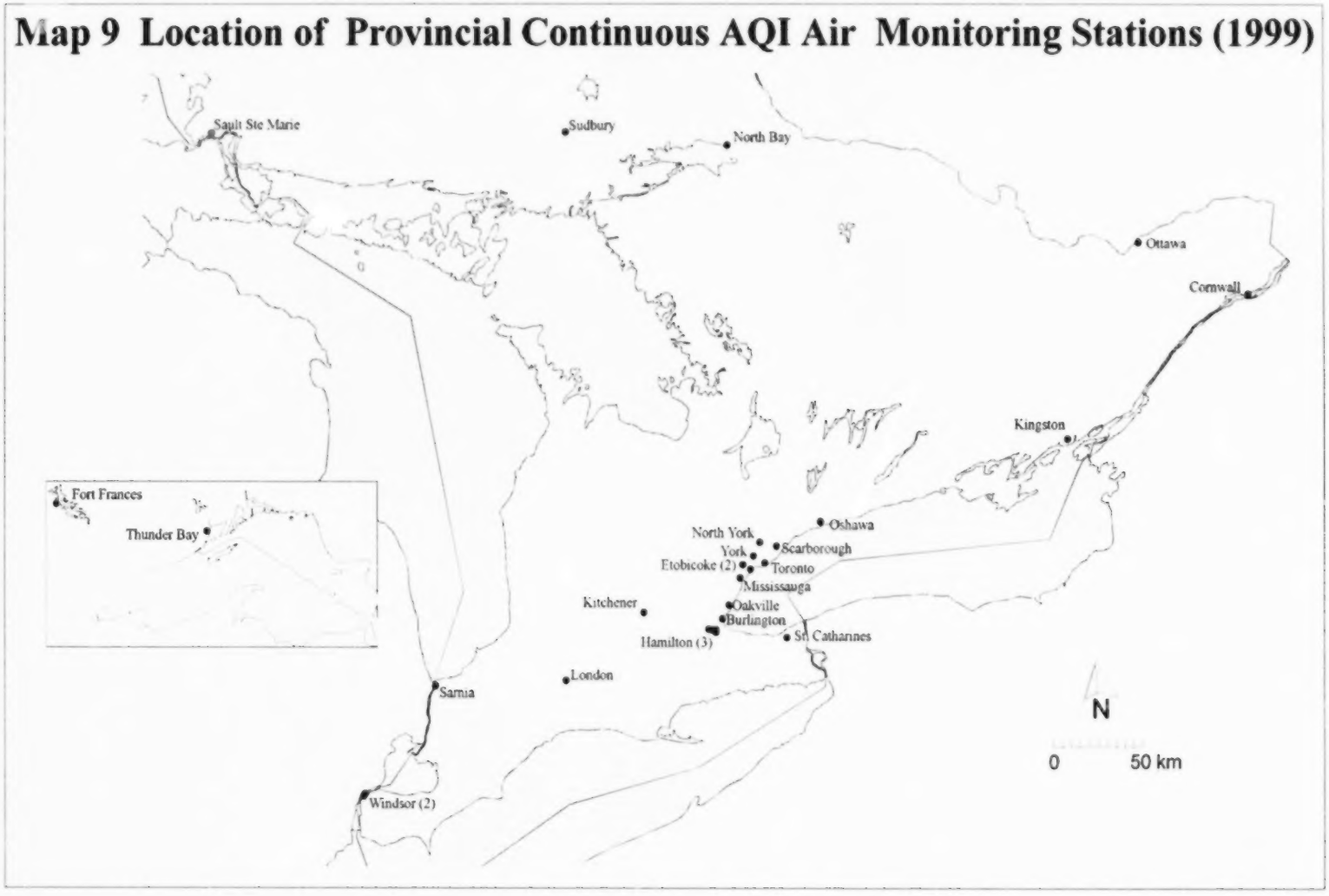
MAP 7 Location of Provincial Continuous O_3 Air Monitoring Stations (1999)



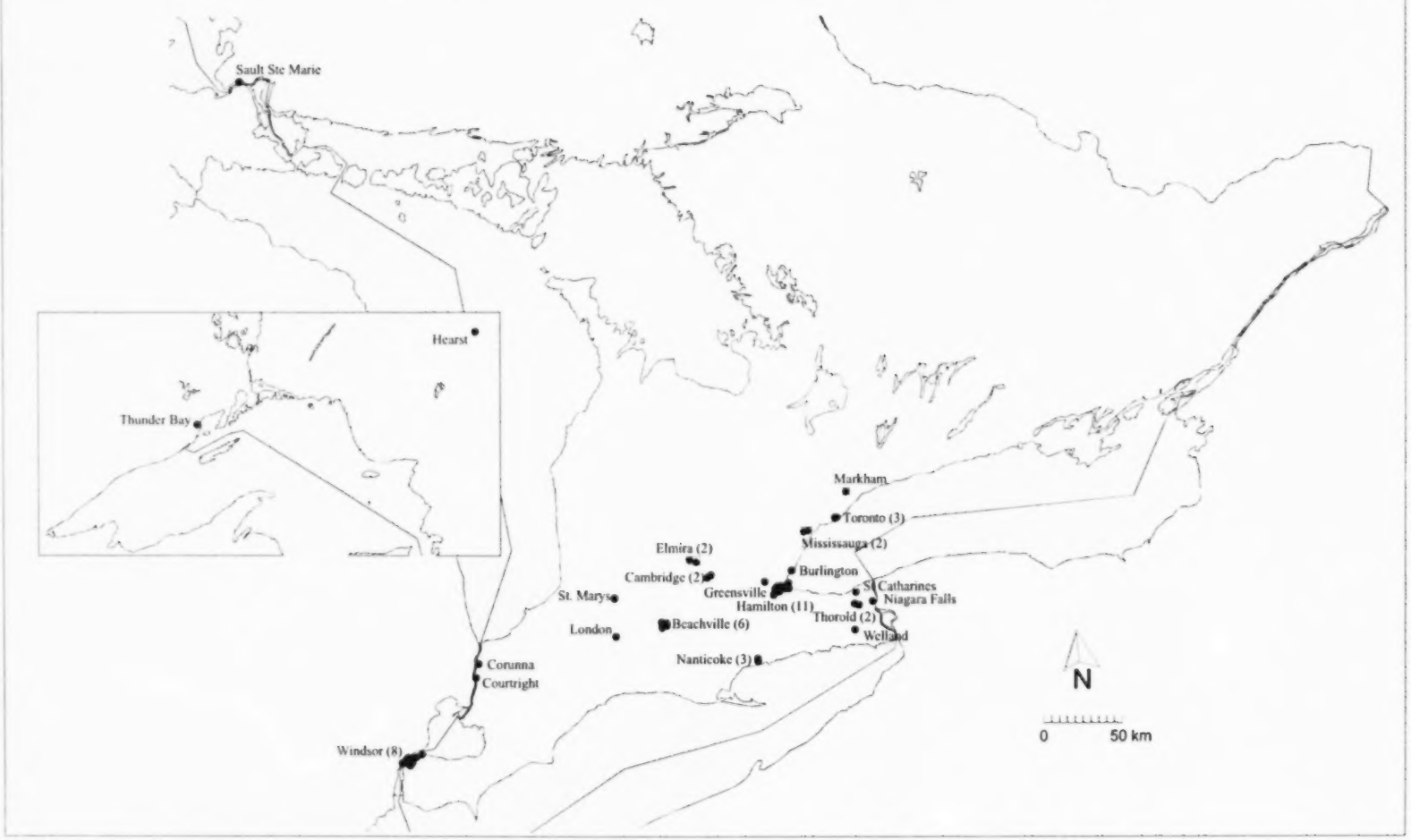
MAP 8 Location of Provincial Continuous $PM_{10/2.5}$ Air Monitoring Stations (1999)



Map 9 Location of Provincial Continuous AQI Air Monitoring Stations (1999)



MAP 10 Location of Provincial 24-Hour TSP Air Monitoring Stations (1999)



MAP 11 Location of Provincial 24-Hour PM_{10} Air Monitoring Stations (1999)

MAP 12 Location of Provincial Continuous MET Air Monitoring Stations (1999)